ENVIRONMENTAL PROTECTION AGENCY

40 CFR Parts 125 and 403

[EN FRL 1696-4]

General Pretreatment Regulations for Existing and New Sources

AGENCY: Environmental Protection Agency.

ACTION: Final rule.

SUMMARY: On June 26, 1978, the **Environmental Protection Agency** published a rule [43 FR 27736-27773] which established mechanisms and procedures for enforcing national pretreatment standards controlling the introduction of wastes from nondomestic sources into publicly owned treatment works [POTWs]. Following the promulgation of the general pretreatment regulations, several actions were brought in Federal court challenging various aspects of these regulations. These actions were subsequently consolidated in the District of Columbia Circuit Court of Appeals in the action Natural Resources Defense Council, Inc. et al., v. EPA, 78-1803.

On May 31, 1979, EPA entered into an agreement with the Chemical Manufacturers Association, the U.S. Brewers Association and others, which sought to settle most of the issues raised by the industry parties in this litigation. Under the terms of this settlement, EPA agreed to propose changes to the June, 1978 regulations to reflect the agreements reached in the settlement. Accordingly, proposed amendments to the general pretreatment regulations were published on October 29, 1979 at 44 FR 62260. The parties to the settlement agreed not to litigate the issues covered by the agreement if the final amended regulations dealt with settlement issues in a manner which did not differ significantly from the language proposed in October. In addition to changes proposed pursuant to the Settlement Agreement, the proposed regulations included changes initiated by EPA and directed at resolving inconsistent and ambiguous provisions of the June, 1978 regulations.

After considering numerous comments submitted on the proposed changes, EPA has developed the amended general pretreatment regulations which are promulgated in final form today.

DATES: The effective date of this regulation is March 13, 1981.

In accordance with 40 CFR 100.01 (45 FR 26048), these regulations shall be issued for the purposes of judicial

review at 1:00 p.m. eastern time on February 10, 1981.

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I. Background

On February 2, 1977, EPA proposed a rule which would establish mechanisms and procedures for enforcing national pretreatment standards controlling the introduction of wastes from non-domestic sources into publicly owned treatment works (POTWs). On June 26, 1978, after more than a year of consideration during which time 4 public hearings and 16 public meetings were held and more than 400 individual comments received, the Agency promulgated the final general pretreatment regulations, 40 CFR Part 403 (43 FR 27736–27773).

Following the promulgation of the general pretreatment regulations, several actions were brought in Federal court challenging various aspects of these regulations. These actions were subsequently consolidated in the District of Columbia Circuit Court of Appeals in the action Natural Resources Defense Council, Inc. et al., v. EPA. On May 31, 1979, EPA entered into an agreement with three of the Petitioners, the Chemical Manufacturer's Association (formerly the Manufacturing Chemists Association), the U.S. Brewers Association and the Pacific Legal Foundation, seeking to settle substantially all of the issues raised by. the industry parties in this litigation.

On October 29, 1979, EPA proposed amendments to the regulations which reflected the agreements reached with the aforementioned parties (44 FR 62260). Today's regulations reflect a final Agency determination on the proposed changes after consideration of

numerous comments received on the amendments. Detailed discussion of the final regulatory provisions and the proposed changes and comments which inspired them is found under section V, "Major Changes."

II. Effect of the Regulations

A. General

The scope of the regulations placed in final form today remains largely unaltered from the original regulations published in 1978. The effect of these regulations is essentially three-fold. First § 403.5 of the regulations sets forth general discharge prohibitions that apply to all non-domestic users of a POTW. The intent of these general limitations is to prevent: (1) interference with the operation of the treatment works, (2) pass-through of pollutants in violation of the POTW's NPDES permit limitations, and (3) municipal sludge contamination.

Second, the regulations, primarily through the operation of §§ 403.8-403.11, establish an administrative mechanism to ensure that these general discharge prohibitions of § 403.5, as well as categorical Pretreatment Standards, are applied and enforced. The regulations envision three levels of administrative control. Most major POTWs will be required to develop a locally-run pretreatment program to ensure that non-domestic users of the municipal system comply with applicable pretreatment requirements. The development of such programs is fundable through construction grants issued pursuant to section 201 of the Act. Where POTWs are not required to develop a local program, NPDES States with approved pretreatment programs and EPA will have first line responsibility for enforcing pretreatment requirements.

Third, these regulations contain provisions relating directly to the determination of and reporting on Pretreatment Standards. Sections 403.6 (request for category determination; adjustment of effluent limitations for combined wastestreams), 403.7 (removal allowances), 403.13 (fundamentally different factors variances) and 403.15 (calculation of effluent limits on a net basis) provide mechanisms for tailoring the effluent limit in a categorical Pretreatment Standard to the unique circumstances of a particular Industrial User. Section 403.12 prescribes reporting requirements for User subject to categorical Pretreatment Standards.

B. Effect on Users Subject to the Electroplating Pretreatment Standards

The promulgation of today's regulations affects the compliance obligations of Industrial Users subject to the Electroplating pretreatment standards.

On September 7, 1979, EPA promulgated final Pretreatment Standards for Existing Sources in the Electroplating Point Source Category (44 FR 52590). These standards were appealed by the National Association of Metal Finishers (NAMF), the Institute for Interconnecting and Packaging Electronic Circuits (IIPEC) and the Ford Motor Company (Ford). The lawsuits are still pending in the Court of Appeals.

NAMF and IIPEC. NAMF and IIPEC negotiated a Settlement Agreement with EPA which required EPA to propose certain amendments to the electroplating standards. The amendments, published July 3, 1980, 45 FR 45322, proposed to change the 30-day average maximum in the final regulation to a 4-day average, and proposed less stringent limitations for cyanide. EPA plans to promulgate final amendments shortly. In addition, in accordance with the Settlement Agreement, EPA expects to extend the compliance date for nonintegrated facilities subject to the electroplating standards because of the delay in promulgation of the final amendments.

Ford. Ford and EPA submitted a joint motion to suspend further litigation until the combined wastestream formula, § 403.6(e), was published in final form. On March 25, 1980, at 45 FR 19245, the Agency published a notice which had the effect of removing "integrated facilities" like Ford from regulation by the electroplating standards until the effective date of § 403.6(e). In that notice, the term integrated facility was defined as a facility that performs more than electroplating operations and combines one or more plant electroplating process wastewater lines with non-electroplating process lines prior to or at the point of treatment. The applicability of electroplating standards to integrated facilities was suspended because it was determined that § 403.6(e) would have to be promulgated in final form before integrated facilities would understand their compliance obligations under the electroplating standards. For the same reason, EPA also agreed to extend the compliance date for integrated facilities until three years after the effective date of § 403.6(e).

Applicability of Electroplating Standards to Integrated Facilities. As a result of the March 25, 1980, notice, the electroplating pretreatment regulations promulgated on September 7, 1979, will apply to Industrial Users meeting the above definition of "integrated facility" commencing on the effective date of today's final amended general pretreatment regulations. Such Users will have three years from the effective date of today's regulations to comply with the effluent limits prescribed in the electroplating standard.

The variance and reporting requirements set forth in the general pretreatment regulations and triggered by the effective date of a categorical Pretreatment Standard, shall, in the case of these integrated facilities, be triggered by the effective date of today's regulations. Thus, integrated facilities must submit the § 403.12(b) baseline report, which is due within 180 days after the effective date of an applicable categorical Pretreatment Standard, within 180 days after the effective date of today's general pretreatment regulations. Similarly, the deadlines for requesting a categorical determination (§ 403.6) or a fundamentally different factors (FDF) variance (§ 403.13) shall also be determined by reference to the effective date of today's regulations,

It should be noted that these requirements are triggered despite the fact that final amendments to the electroplating standards are expected shortly. The electroplating standards published on September 7, 1979, were never the subject of a general stay. The amendments will not materially affect the baseline monitoring requirements of § 403.12, categorical determinations under § 403.6, or FDF variance requests under § 403.13. Because the final electroplating amendments should be promulgated shortly, we do not believe that integrated facilities will be disadvantaged by the deadlines triggered through today's regulation.

Applicability of Electroplating Standards to Non-Integrated Facilities. On June 19, 1980, at 45 FR 41419, the Agency published a notice suspending the deadline for requesting an FDF variance by electroplaters until the promulgation of the final amended general pretreatment regulations. Upon the effective date of today's regulations, the provisions of § 403.13 are once more applicable to Industrial Users in the electroplating category. These Users will be allowed 180 days from the effective date of today's regulation (or, alternatively, 30 days from the Agency's decision on a § 403.6 categorical determination) to request an FDF variance under the provisions of § 403.13.

As discussed above, the amendments to the electroplating standards will not

materially affect FDF variance requests under § 403.13. Non-integrated facilities are already subject to the remaining requirements imposed by 40 CFR 403 including deadlines for baseline monitoring reports and categorical determinations.

III. Scope and Purpose of the National Pretreatment Program

The scope and complexity of the national pretreatment program and the significance of its potential impact on protection of health and the environment make it desirable to provide the public with a detailed statement of EPA pretreatment policy. The National Pretreatment Strategy which was published in Appendix A of the June 1978 regulations is presently being updated. Today's preamble will highlight some of the major objectives and considerations relied on in establishing the program.

A. Size of Program

While all non-domestic users of POTWs are covered by the general prohibitions contained in § 403.5 of this regulation, there are at least 60,000 existing industrial dischargers to POTWs in the 34 categories (see Appendix B, Coverage of Categorical Pretreatment Standards) which will be considered in the initial focus of categorical Pretreatment Standards. Categorical Pretreatment Standards promulgated under section 307 of the Act are based on the best available technology economically achievable (BAT). See section 301(b)(2)(A)(ii). BAT standards are discussed in detail in the preamble section on Pass Through, § 403.3(n). In the future, additional industrial categories may be added to the list of 34 industries. Industrial dischargers who dispose of their wastes through POTWs may also be subject to State or local pretreatment requirements developed to supplement the national program.

Most of the Industrial Users potentially subject to categorical Pretreatment Standards discharge to approximately 2,500 of the Nation's 14,000-plus permitted POTWs. While the majority of these POTWs provide primary treatment, less than half have constructed secondary treatment facilities. Current estimates indicate that about 2,000 of these POTWs will be required to develop local pretreatment programs under the provisions of these general regulations. These programs will vary in size and complexity depending upon the number of Industrial Users in the POTW system.

B. Effects 0) strial Discharges to POTWs on use Public Health and Environment

Industrial discharges to POTWs are known to be the source of significant problems. A number of the pollutants discharged by Industrial Users of POTWs are substances for which there is evidence of carcinogenicity, mutagenicity, and/or teratogenicity. Others are known to have acute toxic effects on human or aquatic organisms at sufficiently high concentrations. Many of the toxic pollutants are persistent in the environment and some bioaccumulate and enter food chains.

When industrial pollutants enter POTWs they can create three types of

problems:

1. Interference. The most immediate impact of these pollutants can be on the operation of the POTW. Discharges of high volumes or concentrations of certain pollutants can inhibit or interfere with the proper operation of a POTW, thus causing it to do an inadequate job of treating normal domestic wastes as well as industrial wastes. As a result, the POTW can be prevented from meeting its permit requirements.

To a large extent, the identification and regulation of interference problems is a local responsibility. Pollutants which interfere with the operation of one POTW may not adversely affect the operation of another. These differences are attributable to several factors including the varying sensitivities of different POTWs and the constituent composition of the wastewater treated

by the POTW.

Because the presence of an interference problem is so dependent on local conditions, regulation of interference is largely relegated to the prohibited discharge provisions of § 403.5 of these regulations rather than the categorical pretreatment standards. Under the provisions of § 403.5, a POTW must develop specific limits for Industrial Users to guard against intrference with the operation of the municipal treatment works.

2. Sludge Management. some toxic pollutants, removed from the effluent stream by treatment at the POTW, enter the POTW's sludge and can contribute significantly to sludge management problems. Industrial pollutants, particularly metals, can limit the sludge management alternatives available to the POTW and increase the cost to the public of providing adequate sludge management. Sludge contaminated with toxic materials can be rendered unusable as a soil conditioner. Many communities are already faced with serious problems in managing ever-

increasing quantities of sludge. In some cases, improper handling of sludges contaminated with metals and other toxic pollutants can result in uptake of these pollutants by crops in the human food chain or leaching of these pollutants into ground water (currently the source of approximately 50 percent of the Nation's drinking water) as well as surface waters. As the following discussion indicates, the magnitude of the sludge contamination problem posed by certain pollutants is often significant enough to warrant regulation of these pollutants through categorical pretreatment standards.

3. Pass-through. Even when the inhibition/interference and sludge management problems mentioned above have been dealt with, there still are many toxic industrial pollutants that do not receive adequate treatment in most POTWs. These toxic pollutants pass through POTWs with removals that would be unacceptable if the POTW were an industrial direct discharger. Toxic industrial pollutants which pass through the POTW can prevent reuse of municipal wastewaters and the productive recycling of organic matter and nutrients in land treatment systems. The pass-through of toxic industrial pollutants can also prevent the attainment of water quality standards and increase the cost to consumers of treating drinking water. Like pollutants which interfere with sludge use or disposal, pollutants which generally pass-through the POTW in unacceptable concentrations or amounts may be subject to regulation through categorical Pretreatment Standards.

Pollutants which cause or have the potential to cause any of the above problems when discharged to a POTW are said to be "incompatible" within the meaning of that term as used in section 307(b) of the Act. Recent data indicate that categorical Preatreament Standards are necessary to control these pollutants.

C. Data Supporting the Need for Pretreatment Standards To Restrict Pass-Through

Recent data gathered by EPA validate the approach taken by Congress in protecting against the discharge of toxic pollutants to navigable waters by establishing Pretreatment Standards. The data indicate that industries are the major source of toxic pollutants in POTW's and that industrial pretreatment provides much superior removal of pollutants than does treatment at the POTW.

1. Major Contributors of Toxic Pollutants to POTWs.

A typical POTW receives 60% of its influent from residential flow, 20% from commercial and 20% from industrial. Information obtained from a recent EPA study has been used to determine the relative contribution of toxics from these three sources. (See Table 1). Despsite the small percentage of flow from industrial sources, industry contributed 67% of the total toxic metals entering the POTW. Moreover, for some individual toxic metals the percentage was even higher (e.g., industry contributed 85% of the cadmium, 83% of the chromium, and 89% of the cyanide entering the POTW).

~ Table 1.—Contribution to a Typical POTW

	60 pct. res.	20 pct. com.	20 pct. ind.
Metals and cyanide:		•	
Cadmium	12	3	85
Chromium	10	7	83
Copper	73	8	19
Lead	45	7	48
· Nickel	14	9	77
Silver	10	2	88
Zinc	`48	7	45
Cyanide	10	1	89
Ave. (pct.)	28	5	67
Organics:			
Benzene	19	55	28
1,1,1,- Trichlorethane	7	- 3	93
- Chloroform	45	20	35
Ethyl Benzene	2	3	95
Tetrachloroethylene	27	17	56
Toluene	19	14	67
Trichloroethylene	9	31	60
Bis (2-Ethylhexyl) Phthalate	45	8	47
Di-N-Butyl Phthalate	47	8	45
Diethyl Phthalate	94	6	Ó
Pinenol	26	3	_ 72
Ave. (pct)	29	17	。 54

Source: Vol 6, Environmental Protection Agency, Sources of Toxic Pollutants Found in Influents to Sewage Treatment Plants, p. 75. EPA Contract Number 68-01-3857.

Not only does the POTW receive a large percentage of its pollutants from industry, but the POTW is not as efficient at removing these pollutants as the Industrial User would be if it installed pretreatment technology. There are two principal reasons for this result. First, the POTW is not designed to remove toxic pollutants. Second, even where pollutants are removed by the POTW's technology, the dilution that occurs at the POTW causes less efficient removal of toxic pollutants than would be achieved by the Industrial User with its more concentrated wastestream.

2. Design of POTWs.

POTWs are designed to meet the mandate of section 301(b)(1)(B) of the Act which requires all POTWs to meet effluent limitations based on secondary treatment by July 1, 1977. Pursuant to section 304(d)(1), the Agency has defined secondary treatment as that treatment necessary to arrive at specified effluent levels for biochemical oxygen demand (BOD), suspended solids (SS), and pH (40 CFR Part 133). As a result, POTWs have been designed to

remove these conventional pollutants and not toxic pollutants. In contrast, pretreatment systems operated by Industrial Users are designed to remove the toxic pollutants in that industry. For example, an electroplater discharging to a POTW would be likely to install a physical-chemical treatment system to remove toxic metals common in electroplating wastestreams. The POTW's system, designed to remove BOD and SS, would not remove toxic metals as efficiently as the Industrial Users' system. While the effect of toxic pollutants on a POTW is sometimes considered in the design of the facility to ensure adequate protection of a biological system and consequent ability to meet conventional pollutant limitations, the systems are not designed to enhance removal of toxic pollutants.

Whatever removal is obtained by POTWs for toxic pollutants is incidental to the POTW's main function of treating conventional pollutants. For example, the reduction of suspended solids in both the primary and secondary sedimentation tanks would produce a reduction in the more insoluble heavy metals as the metals would attach to the settled solids. It should be noted. however, that since heavy metals are not biodegraded, a decrease in heavy metals in the liquid phase produces an increase in heavy metals in the waste sludge. Partially because removal of toxic pollutants by the POTW is incidental to its normal operations, it is also variable. For example, some toxics are more soluble than others and, therefore, will not be absorbed by the solids. Removal of toxic pollutants by the POTW will therefore be more variable than removal by treatment technologies designed to remove such toxics.

3. Removal Efficiency of POTWs.

Even though a POTW may realize some incidental removal of toxic pollutants, the POTW will not remove these pollutants as efficiently as an industrial discharger would. Removal efficiency is largely dependent upon the concentration of pollutants in the wastestream to be treated. The higher the concentration of pollutants, the greater the removal efficiency of the treatment system. Because of the great dilution of toxic pollutants by large volumes of domestic sewage in the influent to a POTW, the POTW will be less effective at treating these toxics than the industry would have been had it treated the toxics while in concentrated form before introducing the industrial wastestream into the POTW. Thus, since the POTW's treatment of influent toxics is less efficient, the total mass of industrial pollutants removed at the POTW is less than the mass removal which would have been achieved had the industries pretreated their wastes.

In light of the foregoing discussion, it is not surprising that data from a recent study show that the removel efficiency of a POTW with secondary treatment installed is considerably less than the removal efficiency of a direct discharger applying appropriate treatment. (See Table 2.) The removal efficiency of POTWs operating at primary treatment was found to be significantly lower than that attained by a secondary treatment plant. In 1978, the Agency initiated a study to determine the removal of toxic pollutants in 40 POTWs that were meeting secondary treatment effluent limitations as required by section 304(d)(1) and regulations promulgated pursuant thereto at 40 CFR Part 133. The removals of 20 of the 40 cities are compared to removals obtained by BAT direct dischargers in the following table.

POTW. Because the Industrial User's waste stream is diluted by many other streams before reaching the POTW, the POTW is unable to remove pollutants as efficiently as the User. Indeed, in those cities with extremely heavy industrial contributions, the removal efficiency improves as the concentration of pollutants in the POTW system increases. It should be noted, however, that the increased removal in these heavily industrialized cities does not result in a reduction in the mass of pollutants discharged to receiving waters. Because more toxic pollutants are in the system to begin with (as reflected in the increased concentrations) more of these pollutants continue to be discharged by heavily industrialized cities than would be discharged by less industrialized cities with lower levels of removal.

In summary, the data in Table 2 show that the POTW's removal of key toxic pollutants is less than an Industrial User would be able to achieve applying best available technology.

4. Conclusion.

This additional data on the removal efficiency of POTWs compared to the removal efficiency of direct dischargers at BAT supports EPA's view that toxic pollutants from Industrial Users are passing through POTWs into the navigable waters and, therefore, are appropriate candidates for control under pretreatment regulations.

The preamble discussion of § 403.3(n) describes EPA's basis for finding that pollutants are passing through POTWs inadequately treated. To restate that view, according to the language of § 307(b)(1), pollutants from a particular industrial category are deemed to be passing through the POTW in unacceptable amounts where the POTW effluent violates the limit for that pollutant which a direct discharger in that industrial category would be required to meet. However, rather than compare the mass or the concentration of pollutants discharged by the POTW with the mass or concentration of a BAT direct discharger, EPA has concluded that comparison of the percent of the pollutant removed by the POTW with the percent removed by a BAT direct discharger provides a real-world means of comparison of treatment capabilities. A comparison of mass discharged would be unacceptable because pollutants enter a POTW from non-industrial as well as industrial sources. A comparison of concentrations would also be unacceptable because the industrial

streams discharged into the POTW are

Table 2.-Toxic Pollutant Removal (Percent)

Cr	Cu	Ni	Zn	Pb	Cd	Phenois
73	77	39	76	73	46	68
99	. 97	98	98	95	93	
82	93	98	80	79		
87 98	79	89	87	94	90	
99	99	96			60	
99	99	- 99	99	97	02	**************
	73 99 82 87 98	73 77 99 97 82 93 87 79 98	73 77 39 99 97 98 82 93 98 87 79 89 98 99 99 96	73 77 39 76 99 97 98 98 82 93 98 80 87 79 89 87 98 99 99 96 99	73 77 39 76 73 99 97 98 98 95 82 93 98 80 79 87 87 79 89 87 94 98 99 99 96 99 98	73 77 39 76 73 46 99 97 98 98 95 93 82 93 98 80 79 87 79 89 87 94 90 98 99 99 96 99 98 98 99 99 99 96 99 98 98

Sources: Rulemaking data in the listed effluent limitation categories; Fate of Priority Pollutants in Publicly Owned Treatment Works, Interim Report, EPA 440/1–80/501, October 1980.

The table shows that while POTWs with secondary treatment remove some heavy metals and phenols, direct dischargers with BAT treatment systems

are more efficient. As indicated in the prior discussion, this is largely due to a the much higher concentration of pollutants at the industry than at the diluted by other incoming streams. Accordingly, the Agency has sought to achieve the underlying intent of section 307(b) by focusing on a comparison of the removals provided by direct dischargers and POTWs.

As discussed previously, Table 2 supra, compares the removal achieved by PCTWs with the removal achieved by direct dischargers for various toxic metals and phenols. The data demonstrate that POTWs are not as efficient at removing these toxic pollutants as direct dischargers applying BAT. Accordingly, the pollutants are passing through the POTW with treatment at levels less than BAT removal, and therefore pretreatment standards are necessary.

D. Data Supporting the Need for Pretreatment Standards to Restrict Unacceptable Sludge Contamination

In addition to requiring EPA to regulate pollutants that pass through the POTW, the Clean Water Act also requires EPA to control pollutants that interfere with the operation of the POTW. As indicated earlier, § 403.5 of the general pretreatment regulations covers the grossest forms of "interference" with the POTW, such as dumping flammables into the works, dumping acids or other solutions that will corrode the works, and so on. another form of interference occurs when the POTWs sludge disposal alternatives are limited as the result of contamination of the sludge with toxic pollutants from industrial dischargers. Section 307(b) of the Act requires Pretreatment Standards for pollutants introduced into POTWs, as defined in section 212 of the Act, which would interfere with the operation of such works. Section 212(2) defines treatment works to include land used for the ultimate disposal of residues, such as sludge, resulting from treatment. Thus, contamination of the residues or sludge that would interfere with its disposal constitutes interference with the POTW.

In addition, the 1977 amendments to the Act link removal allowances for Industrial Users to sludge use and disposal. If the POTW is removing the pollutant, the POTW may give credit for that removal to the Industrial User by modifying the User's Pretreatment Standard, but only if the discharge from the User does not prevent the POTW's sludge use or disposal from being in accordance with section 405 of the Act. By so providing, Congress indicated its intention that EPA prevent interference with POTW's sludge disposal alternatives by establishing Pretreatment Standards that would prevent toxic pollutants from entering

the sludge in amounts that would interfere with the POTWs selected method of sludge use or disposal. Indeed, the Conference Report on the 1977 amendments states that "[i]n addition to the express criteria of section 307(b), the Administrator in establishing pretreatment standards shall consider the guidelines for sludge disposal or use established under section 405." (Conf. Report 95-830 at 88; Reprinted in Comm. on Environmental and Public Works, 95th Cong. 2d Sess., A Legislative History of the Clean Water Act of 1977 (hereafter referred to as "Legis. Hist."), vol. 3. at 272.) .

As Congress recognized when it linked sludge disposal alternatives to Pretreatment Standards, there are sound scientific reasons for cleaning up the sludge. Toxic heavy metals and some toxic organic chemicals are commonly found in the sludge of POTWs that serve industry. (See Fate of Priority Pollutants in Publicly Owned Treatment Works, supra.) Some of these sludges are subject to regulatory requirements under section 405 of the Clean Water Act, the Resource Conservation and Recovery Act, and other statutes and regulations.

Heavy metals are commonly regulated in sludge disposal provisions due to the toxic effects of these pollutants on plant, animal life, and human health. For example, exposure to cadmium can result in kidney damage and chronic respiratory problems. Moreover, cadmium is readily taken up by many crops which are subsequently eaten by humans. Exposure to lead, especially in children, can damage the heme synthesis system, the nervous system, and the renal system. Anemia occurs in children at blood levels of 40 µg/100 ml of whole blood. Exposure to mercury can cause lesions on the mucuous membranes of the respiratory tract which lead to bronchitis. Ingestion of mercury over long periods of time can cause brain damage and loss of hearing and vision. Mercury is also readily absorbed by food crops. Exposure to arsenic can cause fatigue in mild cases, and damage to internal organs such as the kidneys, liver, and intestines in severe cases. It is also highly toxic to plants. Inhaled hexavalent chromium can cause lung tumors. Copper, nickel, and zinc can be toxic to plants, particularly on acid soils. In short, these metals are of national (as well as international) concern.
1. "Removal" of Toxic Metals to the

1. "Removal" of Toxic Metals to the Sludge.

As the discussion in part "C" indicated, POTWs may realize incidental removal of toxic pollutants. In the case of heavy metals, this "removal" simply means shifting the toxics from

the POTWs liquid wastestream to the POTWs solid waste (sludge).

In a recent study, sludges at POTWs treating at secondary levels were tested for metal content (See Table 3.).

BILLING CODE 6560-33-M

Table 3

Concentration of Selected Metals in Secondary POTM Sludge (mg/kg)

Median	14	553	2167 256
Average	157	894	2874 361
Range	1 - 1622 125 - 1762	150 - 3160 $13 - 803$	420 - 8468 40 - 1169
	Cadmium	Copper	Zinc

Metal mg/kg

ļ	16		39	302	426	103	108	103
	-		···	∺ 		≍ 		
	15		6	178	531	9	2	256
	14		&	865	848	803	3,936	190
	13		•	360	553	06	1,735	413
	12		665	1,956	3,160	252	5,044	36
	11		14	841 1,	1,346	110	1,148	236
	10		84	415	833	137	2,491	398
	6		51	254	436	123	677	244
CILY	8		9	1,199		710	8,468	1,169
	7		12	1,762	1,111	663	3,111	1,070
	9		1,622	1,499	934		7,413	196
	5		17	422	150	67	1,313	498
	7	•	14	563	334	67	3,740	1,074
	3			125	540	E1	420	04
	2		71	317	418	121	1,045	289
	1		31	927	1,256	165	2,480	571
	-	Metal	Cadmium	Chromium	Copper	Nickel	Zinc	Lead

Fate of Priority Pollutants in Public Owned Treatment Works, Interim Report, EPA 440/1-80/301 October 1980 at 29. (Derived by dividing by total solids.) Source:

BILLING CODE 6560-33-C

Another study showed the following concentrations of toxic metals in POTW sludges where not all the POTWs tested had secondary treatment.

Table 4.-Concentration of Selected Metals in POTW Sludae

Model	Mg/kg-dry	basis
Metal	Range	Median
As	6-230	*10
Cd	0-1,320	⁻ 13
Cr,	10-99,000	*890
Cu	1-23,124	646
Hg,	0.5-10,600	•5
Ni	0-9,450	53
Pb	0-10,800	360
Zn	.0-49,000	1,350

^{*}Sommers, Chemical Composition of Sewage Sludges and Analysis of Their Potential Use as Fertilizers, 6 J. Environ. Qual. 225 (1977).

Improper disposal or utilization of sewage sludge containing excessive levels of these toxic pollutants could lead to serious adverse environmental and human health effects. Land application of contaminated sludges could result in the introduction of toxic metals into the food chain through uptake by plants or contamination of water supplies through runoff to surface waters or percolation into groundwaters. In addition, ready public access to disposal sites could significantly increase the possibility of direct exposure of the general population, particularly children, to these toxic pollutants. Incineration of contaminated POTW sludges could lead to the further introduction of these toxic elements into the air. It is, therefore, desirable to isolate these toxic pollutants in small, but concentrated, industrial sludges, rather than sending them on to the larger POTW sludge. This approach facilitiates proper handling and disposal of highly toxic sludges.

Comparisons of municipal sludges before and after pretreatment programs indicate that pretreatment programs have been effective in reducing metals concentrations in POTW sludges. For example, in Muncie, Indiana, the sludge concentration (mg/kg-dry basis) of chromium went from 2,000 before pretreatment to 9.5 after pretreatment. Copper went from 1,750 to 700; nickel from 8,500 to 150, and zinc from 5,800 to 2,700. Large reductions were also achieved in Buffalo, New York, and Grand Rapids, Michigan. (Source: Effluent Guidelines and Standards; **Electroplating Point Source Category;** Pretreatment Standards for Existing Sources, 44 FR 52598 (September 7,

2. Section 405 Regulations.

As stated previously, in establishing pretreatment standards, the Administrator must consider guidelines for sludge disposal or use established under section 405 of the Act (See section 307(b) of the Act; Conf. Report 95-830 at 88; Legis. Hist. Vol. 2 at 272.). EPA has promulgated regulations entitled Criteria for Classification of Solid Waste Disposal Facilities and Practices (40 CFR Part 257) which provide limits on cadmium and polychlorinated biphenyls (PCBs) in solid waste applied to land used for production of food-chain crops. The annual application of cadmium from solid waste is limited to 0.5 kg/hectare (ha) for land used for the production of certain crops shown to be cadmium accumulators. An initial limit of 2.0 kg/ha with a gradual phasing to 0.5 kg/ha of cadmium is specified for other foodchain crops. Furthermore, cumulative cadmium application ceilings are provided on the basis of soil pH and cation exchange capacity (CEC).

The restrictions imposed on PCBs provide that solid waste containing concentrations of PCBs equal to or greater than 10 mg/kg must be 'incorporated into the soil," i.e., injected beneath the surface of the soil or mixed with the surface soil, when applied to land used for producing animal feed. Incorporation into the soil is not required if it is assured that the PCB content is less than 0.2 mg/kg in animal feed or less than 1.5 mg/kg in milk.

Regulations addressing the distribution and marketing of sewage sludge products under § 405 are presently in the proposal stage and scheduled for formal proposal in the Federal Register early in 1981. These regulations are expected to provide additional limitations on cadmium and PCBs, and restrictions on other metals, including boron, lead, copper, nickel and zinc in sludge products.

3. Other Federal Regulations Other Federal reguations and guidelines, which are not promulgated pursuant to section 405, bear mentioning here. Although these regulations are not relied upon in setting categorical Pretreatment Standards, they nevertheless are indicative of the national concern regarding sludge handling and disposal. To the extent that individual POTWs must consider these regulations in making their sludge disposal choices, the regulations take on even more significance. The National Interim Primary Drinking Water Regulations (40 CFR 141) establish maximum contaminant levels for many substances in drinking water, including arsenic, cadmium, chromium, lead, and mercury, on the basis of their human health implications. These standards

were also adopted for the protection of groundwater from contamination by solid waste disposal (40 CFR 257). The National Secondary Drinking Water Regulations (40 CFR 143) provide guidelines for contaminants that may adversely affect the aesthetic quality of drinking water such as taste, odor, color and appearance. In addition to setting recommended levels for other water quality parameters, these guidelines limit copper and zinc to 1.0 mg/l and 5.0 mg/l, respectively. The Ocean Dumping regulations (40 CFR 220-229) restrict the introduction of toxic pollutants into the marine environment. These regulations specifically prohibit the ocean dumping of any material containing either mercury or cadmium as other than trace contaminants.

EPA has recently published water quality criteria for 64 of the 65 pollutants designated as toxic under the Clean Water Act, including arsenic, cadmium, copper, mercury, nickel, lead and zinc. (45 FR 79318, November 28, 1980.) These criteria specify ambient concentrations of pollutants which are generally adequate to ensure the protection of human health and the protection and propagation of fish and other aquatic life.

In order to prevent significant adverse effects on plants and soils, the National Academy of Sciences and the National Academy of Engineering recommended maximum concentrations of trace elements in irrigation waters in the NAS/NAE 1972 Water Quality Criteria.

Concern over the potential exposure to mercury and lead through inhalation has led to control of airborn mercury and lead by two additional national standards. The National Ambient Air Quality Standards for Hazardous Air Pollutants (40 CFR 61.50) restrict the emission of mercury to the atmosphere from sludge incineration plants, sludge drying plants, or a combination of these that process sewage sludges, to 3200 grams over a 24 hour period. They also restrict the emission of lead to 1.5 µg/ cubic meter as a monthly average.

The Food and Drug Administration (FDA) stated that any new practices which would significantly increase the cadmium levels in foods should not be instituted. In order to protect the public health, FDA has recommended that sludges containing more than 25 mg/kg cadmium, 1000 mg/kg lead, or 10 mg/kg PCB's, on a dry basis, should not be applied to lands used to grow foodchain crops. FDA also proposed that the total amount of lead in sewage sludge added per hectare (ha) should not exceed 500 kg for soils with a cation exchange capacity (CEC) of less than 5,

Source: Office of Solid Waste, EPA, Draft Preliminary Impact Assessment on Sludge Distribution and Marketing Regulations, 1980.

1000 kg for a CEC between 5-15 and 2000 kg for a CEC over 120.

The U.S. Department of Agriculture (USDA) has issued guidelines for the land application of sludge. Five metals were addressed: cadmium, lead, copper, nickel and zinc. Based on an evaluation of the effects of municipal sludge application on plant life, soil productivity and human health, USDA recommended that on privately owned and controlled land, the maximum lifetime amount of sludge-borne metals which may be applied to any given site should not exceed certain limits, including 5 to 20 kg/ha for cadmium, and 125 to 500 kg/ha for copper. In the absence of regulatory requirements, the foregoing USDA guidelines have been adopted by EPA and are presented in its technical bulletin, Municipal Sludge Management: Environmental Factors.

4. State Regulations.

Most States have either enacted legislation or promulgated guidelines governing the application of sewage sludge to food-chain lands. One of the primary considerations in drafting State guidelines has been the potential for heavy metals, particularly cadmium and lead, and PCBs to enter the human food chain in dangerous concentrations. Some States have, accordingly, adopted guidelines and standards similar to those promulgated in 40 CFR Part 257. Again, to the extent that POTWs must comply with these requirements, they have significance beyond the demonstration of concern over toxic pollutants in municipal sludge. See Sludge Management: A Comparision Between State and Proposed Federal Guidelines, Contract No. 09075-068-003, EPA, October 16, 1979.

5. Regulation of Sludge by Other ' Countries.

There is international concern over control of these toxic metals in the environment. For example, the following organizations and countries have established guidelines and standards on the toxic metal content of sludges or on the use of contaminated sludges: World Health Organization/Food and Agriculture Organization of the United Nations, Canada, Great Britain, Federal Republic of Germany, Holland, Denmark, Finland, Norway and Sweden. France and Scotland are in the process of studying the problem. While these international regulations do not form the basis of EPA pretreatment Standards or section 405 regulations, they are indicative of the growing concern over contaminated sludges and may predict the future regulatory activity of the federal government and States in this area.

Based on the foregoing discussion, EPA concludes that the categorical Pretreatment Standard approach to the elimination of discharges of toxic pollutants is supported by evidence of toxic pollutants passing through POTWs and interfering with POTWs by contaminating municipal sludge.

IV. Statutory Considerations

The EPA pretreatment policy and the general pretreatment regulation are based upon the Federal Water Pollution Control Act Amendments of 1972 as amended by the Clean Water Act of 1977, (Pub. L. 95-217) 33 U.S.C. 1251 et

seq.
The Clean Water Act was meant to "restore and maintain the chemical, physical, and biological integrity of the Nation's waters" by establishing as a national goal the elimination of the discharge of pollutants into the navigable waters by 1985. A major emphasis for attainment of this goal was placed upon technology-based regulations. Industries which discharge into waters of the U.S. are required to achieve limitations based on Best Practicable Control Technology Currently Available (BPT) by July 1, 1977, and Best Available Technology Economically Achievable (BAT) by July 1, 1984, in accordance with sections 301 and 304. New sources are required to comply with New Source Performance Standards (NSPS) based on Best Available Demonstrated Control Technology (BDT) under section 306. POTW's are obliged to meet "secondary treatment" by 1977, and Best Practicable Waste Treatment Technology (BPWTT) by 1983, in accordance with sections 301(b), 304(d), and 201(g)(2)(A). Users of a POTW are required to comply with Pretreatment Standards and any other requirements promulgated pursuant to section 307 (see section 301(b)(2)(A)(ii)).

Sections 307(b)-(d) are the key sections of the 1972 Act in terms of pretreatment. Section 307(b) requires the EPA Administrator to promulgate regulations establishing Pretreatment Standards for the introduction of pollutants by existing sources into POTWs. Pretreatment Standards promulgated under section 307(b) must be established to prevent the discharge of any pollutant which interferes with the POTW (or contaminates its sludge), passes through, or otherwise is 'incompatible" with the POTW.

Section 307(c) requires that the Administrator promulgate Pretreatment Standards for a source which would be a new source subject to section 306 if it were to discharge pollutants to waters of the U.S. These regulations must be promulgated simultaneously with the

promulgation of standards of performance under section 306. New source Pretreatment Standards must be designed to prevent the discharge of any pollutant into the POTW which may interfere with, pass through, or otherwise be incompatible with the operation of the works, including sludge use or disposal.

Under section 307(d), it is unlawful to operate a new or existing source in violation of a Pretreatment Standard promulgated under sections 307(b) and (c). Violations of section 307(d) are subject to enforcement actions brought by the EPA (under section 309) against both the POTW and the Industrial User

who is in violation.

The Clean Water Act amendments of 1977 reflect a Congressional consensus that the approach discussed above is sound and, with modifications to ensure a special emphasis on control of toxic pollutants, should be continued. The Clean Water Act has added several new provisions relevant to pretreatment. Section 307(b)(1) was amended to allow for local modification of national categorical Pretreatment Standards to take into account the actual pollutant removal capabilities of particular POTWs. Section 402(b)(8) was amended to provide that any NPDES permit issued to a POTW should include, as permit conditions, requirements for identifying pollutants from significant Industrial Users and for instituting an adequate local program to ensure compliance by users with national Pretreatment Standards. Finally, section 405 was amended to expand the guideline provisions relating to the disposal and utilization of sludge and to provide that any permit for the discharge of sewage sludge shall be subject to the requirements of section 402 of the Clean Water Act.

V. Major Changes in the Final Amended General Pretreatment Regulations (By Section)

Note on Deletion of "Comments"

The proposed amendments published in October 1979 contained several "comments" intended to clarify certain provisions of the regulation. A "comment" does not have binding regulatory effect. Rather, it is equivalent to a preamble discussion and like a preamble, its purpose is to give the public and regulated parties more information on the regulatory provisions.

It is the policy of the Office of the Federal Register not to include "comments" within the regulatory text. Accordingly, the Agency has deleted from the regulation most of the

"comments" found in the October proposal. These comments are reproduced below with reference to the section of the final regulation in which they would have appeared.

§ 403.5(c)(2)

[Comment: This provision is not intended to require pretreatment for compatible waste as a substitute for adequate municipal treatment. When the POTW's acceptance of compatible wastes results in difficulties in meeting NPDES permit conditions, the POTW should consider a solution that is cost-effective and equitable, and consistent with the goal of joint treatment.]

§ 403.5(e)

Comment: The POTW's enforcement action will generally be deemed appropriate if: 1) the action is promptly commenced and seriously and vigorously pursued; 2) the violaters are placed on a legally enforceable, written schedule which achieves permanent pretreatment compliance as expeditiously as possible; 3) the POTW and the violators take all practicable temporary measures to eliminate or substantially abate the pretreatment problem until permanent compliance is achieved; and 4) the violators are penalized sufficiently to remove any economic benefit derived from the violations and to deter further violations. While this standard does not require the POTW to file a lawsuit against the Industrial User, the standard does establish that the mere initiation of negotiations with the User or the issuance of warning letters which do not result in immediate steps towards expeditious and permanent compliance are insufficient.]

§ 403.7(b)(4)

[Comment: This provision is not intended to require pretreatment for compatible waste as a substitute for adequate municipal treatment. When the POTW's acceptance of compatible wastes results in difficulties in meeting NPDES permit conditions, the POTW should consider a solution that is costeffective and equitable, and consistent with the goal of joint treatment.]

§ 403.7(c)(3)

[Comment: The Approval Authority is encouraged to review applications promptly upon receipt where failure to do so might result in substantial economic hardship to affected Industrial User(s) if such User(s) were required subsequently to install significantly different or more expensive pretreatment equipment in the event the POTW's revision of categorical

Pretreatment Standards is denied or reduced. Prompt review will enable Industrial Users to make plans with greater confidence and will protect the environment from pollution which might result from inappropriate conditionally or provisionally revised discharge limits.

§ 403.7(f)(5)(ii)

[Comment: This provision is not intended to require pretreatment for compatible waste as a substitute for adequate municipal treatment. When the POTW's acceptance of compatible wastes results in difficulties in meeting NPDES permit conditions, the POTW should consider a solution that is costeffective and equitable, and consistent with the goal of joint treatment.]

§ 403.8(f)(1)(i)

[Comment: This provision is not intended to require pretreatment for compatible waste as a substitute for adequate municipal treatment. When the POTW's acceptance of compatible wastes results in difficulties in meeting NPDES permit conditions, the POTW should consider a solution that is costeffective and equitable, and consistent with the goal of joint treatment.]

§ 403.9(c)(1)

[Comment: For example, where a compliance monitoring program for a certain industrial category is not yet required because the Pretreatment Standard for that industrial category has not been promulgated and no other pretreatment requirements apply to that source.]

§ 403.10(d)(1)

[Comment: This clause allows the State six months from the date on which it is required to have an approvable State Pretreatment Program (see paragraph (b) of this section) in which to modify or reissue municipal permits to include pretreatment requirements.]

§ 403.10(f)(1)(iv)

[Comment: However, in most cases the Director's authority to seek judicial relief will be exercised where there is no POTW Pretreatment Program or where the POTW has failed to act.]

§ 403.11(b)(3)

[Comment: The Approval Authority may decide after the comment period provided in this public notice to review the Submission at once.]

§ 403.12(a)

[Comment: In cases where there is an unapproved POTW pretreatment program, the Approval Authority may

request that Industrial Users submit to the POTW copies of reports required under § 403.12.]

§ 403.12(e)(1)

[Comment: Authority to require more detailed reporting of flows should in most cases, be preserved for those instances where the Industrial User is a major source of flow to the POTW or is a significant contributor of pollutants.]

§ 403.13(d)(1)

[Comment: Wastestream(s) associated with a User's process wastewater which were not considered in the development of the Standard will not ordinarily be treated as fundamentally different under paragraph (c). Where an Industrial User elects to combine, prior to treatment, a regulated wastestream with a wastestream not considered in setting categorical Pretreatment Standards. § 403.6(e) provides the proper procedures for determining an adjusted Pretreatment Standard. Where an adjusted Pretreatment Standard has been calculated in accordance with § 403.6(e), the Industrial User may apply for a fundamentally different factors variance from this adjusted Standard in accordance with this section.]

§ 403.13(d)(6)

[Comment: In determining whether factors concerning the Industrial User are fundamentally different, EPA will consider, where relevant, the applicable development document for the Standards; associated technical and economic data collected for use in developing each respective Standard; records of legal proceedings; and written and printed documentation, including records of communication and any pertinent information submitted by Requester, etc., relevant to the development of respective Standards which are kept on public file by EPA.]

§ 403.13(e)(1)

[Comment: Under this section a variance request may be approved if it is based on factors which relate to the User's ability ultimately to achieve the Standards but not if based on factors which merely affect the User's ability to meet the statutory deadlines of section 301 and 307 of the Act such as labor difficulties; construction schedules, or unavailability of equipment;]

§ 403.1 Applicability of Regulation. § 403.1(b) Coverage of the

§ 403.1(b) Coverage of the Pretreatment Regulations.

This section has been modified to clarify which pollutants and sources are subject to the General Pretreatment regulation. All pollutants contributed to POTWs by non-domestic sources are subject to the regulation, even those pollutants traditionally considered to be

domestic in nature.

One commenter stated that pollutants traditionally considered to be domestic in nature should not be regulated by Pretreatment Standards when they are discharged from non-domestic sources. The Agency disagrees with the commenter. Section 307(b) of the Clean Water Act makes it clear that EPA must regulate any pollutant introduced into POTWs which interferes with, passes through or otherwise is incompatible with such works. The Act makes no distinction between domestic or non-

domestic pollutants. Several commenters sought clarification of a perceived conflict between § 403.1 and § 403.5(c). Section 403.1 states that this regulation applies to "pollutants from non-domestic sources". Section 403.5(c) states that where pollutants from users contribute to a violation of a POTW's NPDES permit, the POTW is required to take action to correct that violation including, possibly, the imposition of effluent limits on several classes of users. The commenters were concerned that the language in § 403.1 limiting application of this regulation to non-domestic sources might be interpreted to restrict the POTW's options in remedying permit violations. EPA sees no conflict between the two sections. Section 403.1 correctly states which pollutants and sources are subject to nationally developed regulations. As discussed in the preamble to the proposed amendments, § 403.5(c) recognizes the POTWs authority to set additional limits or take other measures as necessary to cure permit violations. Although a POTW must remedy its permit violation, EPA does not by regulation mandate what form of action the POTW must take. The municipal authority may elect

combination of these actions. The second sentence of § 403.1(b) elicited comments on the applicability of the general pretreatment regulations to POTWs not required to obtain an NPDES permit, and on the applicability of categorical Pretreatment Standards and § 403.5 general prohibitive discharge limits to industries intoducing wastes into such POTWs.

to commence appropriate enforcement

actions; impose specific effluent limits

or prohibitions on all or certain classes

of users; modify the treatment plant or

operation; or undertake some

Section 307(b) of the Clean Water Act governs the applicability of categorical Pretreatment Standards and prohibitive discharge limitations. That section specifies that such standards and

prohibitions are applicable to any 'source" contributing incompatible pollutants into "treatment works (as defined in section 212 of this Act)." The referenced definition includes PÓTWs which are not point sources of pollutants and which, consequently, do not require an NPDES permit. Thus, industries can be subject to § 307 (b) or (c) standards where they contribute pollutants to a POTW not required to have an NPDES permit.

Section 402(b)(8) of the Clean Water Act identifies the POTWs which are required to comply with the general pretreatment regulations. That section requires only POTWs with NPDES permits to develop a pretreatment program. Thus, section 402(b)(8) does not require that POTWs without NPDES permits develop pretreatment programs. Examples of these non-NPDES POTWs include municipal facilities which treat their entire effluent through evaporation lagoons, land tratement systems or water reuse or recycling systems.

However, as indicated previously, non-domestic users contributing to these systems will be subject to applicable Pretreatment Standards. Thus, while the Agency will not require a non-NPDES POTW to develop and submit a pretreatment program, such a POTW may elect to do so and assume primary responsibility for ensuring compliance by its Users with applicable requirements. Where non-NPDES POTWs so elect, EPA or the State, as appropriate, will assume a supplementary role in ensuring compliance. Where the non-NPDES POTW does not develop and obtain approval for a pretreatment program, EPA and the State will assume primary responsibility for ensuring compliance with Pretreatment Standards by regulated Users.

§ 403. Definitions.

§ 403.3(f) Definition of "Enforcement" Division Director.'

Because reference to EPA's ten Enforcement Division Directors is made in several sections of the regulation, a definition of this term has been included in the central definition section.

§ 403.3(g) Definition of "Discharge" or "Indirect Discharge."

EPA agrees with the commenters who suggested that it is inappropriate to use the word "discharge" in defining the term "discharge." Thus, § 403(g) has been amended accordingly. Another commenter felt that confusion might arise from defining "discharge" and "indirect discharge" to mean the same thing. The Agency recognizes that the

term "discharge" as defined in the CWA and the Consolidated Permit regulations conveys a very distinct meaning which differs from the use of the term "indirect discharge" in the general pretreatment regulations. However, for the purposes of simplifying the language of this regulation whenever possible, the term "discharge" is used interchangeably with the term "indirect discharge." The Agency believes that the advantages to be gained by avoiding awkward regulatory provisions outweigh any confusion which might arise over the interchangeable use of these terms.

§ 403.3(i) Definition of "Interference."

The proposed amendments to § 403.3(i) provide that contributions by Industrial Users will be deemed to result in Interference where such contributions cause or significantly contribute to a violation of the POTW's NPDES permit. Prior to the proposed revision, the regulation provided that any industrial user contributing to a violation of the permit would be deemed to be causing Înterference. The proposed revision obviously establishes a more stringent standard of proof to be met before an industrial contribution can be held to cause Interference. A majority of the commenters addressing this proposed provision objected to this more stringent standard of proof. Many of these commenters, as well as other commenters who generally supported the proposed amendment, suggested that the definition of Interference would be more workable if the Agency defined those discharges which would constitute a significant contribution to a violation.

EPA agrees that further definition of a significant contribution is advantageous both to give industry better notice of that standard of conduct to which it is expected to conform and to provide clear guidelines for establishing violations of the Interference prohibition. Therefore, § 403.3(i) has been amended to specify that an Industrial User significantly contributes to the relevant permit violation or sludge problem if it either exceeds its authorized daily pollutant loading, discharges wastewater which differs substantially from the User's average discharge, or if it knows or has reason to know that its discharge would result in such violation or sludge problem. The first category (exceeding a daily pollutant loading) establishes a clear threshold, rendering the Industrial User liable if its discharge violates any contract, law or ordinance, and there is an NPDES permit violation or sludge problem. The second category establishes another strict and objective test: if the discharge, albeit not in

violation of local limits, is in substantial variance with the User's average discharge (taking into account the historically normal variations in production or process of the User) and there is a permit violation or sludge problem, then the User is deemed to have significantly contributed to such situation.

The third category approaches "significant contribution" from the standpoint of the User's actual or imputed knowledge of the foreseeable effects of its discharge. This separate category is less strigent but relies upon the judicially familiar concepts of knowledge, foreseeability and reasonableness. It should also be noted that the definition of Interference provides that Interference exists if the User is a cause of or significantly contributes to the magnitude or duration of an existing permit violation. The definiton of Interference further provides that a User may be held liable for Interference where his discharge, in conjunction with discharges from other sources, results in a violation of the POTW's permit or non-compliance with the cited statutory, regulatory and permit requirements.

It should be noted that an Interference violation based on interference with sludge disposal or use only exists where the Industrial User causes or contributes to the POTW's inability to comply with one of the cited statutes (or regulations and permits) as it applies to the POTW's selected manner of sludge use or disposal. An Interference violation will not lie where the Industrial User's discharge would prevent the POTW's sludge from complying with requirements applicable to a method of sludge disposal which is not used by the POTW.

Limit on Liability by Complying with -Effluent Standards. The proposed amendment to the definition of "Interference" does not consider pollutants to be interfering with the POTW when the discharge of such pollutants into the POTW is in compliance with Federal. State and local limits. One half of the commenters addressing this proposed change supported the amendment. The balance of the commenters felt that the amendment should be deleted. The latter group found the proposed amendment to be confusing, in conflict with the provisions of § 403.5, and inappropriately-placed in the definition section. One commenter stated that it is "ridiculous" to exempt a discharge from the interference prohibition because that discharge is in compliance with an effluent limitation if the discharge is

indeed meeting all the criteria for causing Interference set forth in § 403.3(i).

The Agency agrees with those commenters who found it confusing and logically inconsistent to define Interference in § 403.3(i) and then, in the same provision, exclude some sources meeting that definition. In order to avoid the confusion which apparently resulted from including the proposed limit on liability in § 403.3(i), the Agency is deleting the last two sentences of that -paragraph. EPA continues to support the intent behind the proposed amendment and believes that this intent is preserved by the language of § 403.5(e) which provides that, where an Industrial User is causing Interference, yet complying with Federal, State and local standards, the POTW has an opportunity to adjust the relevant standard. However, if the POTW fails to commence corrective action within the 30-day period provided in § 403.5(e), EPA or the State may take appropriate action.

Reference to Other Statutes. Several commenters challenged the Agency's authority to define Interference by reference to the Toxic Substances Control Act, the Solid Waste Disposal Act (including the Resource Conservation and Recovery Act), and the Clean Air Act. These comments indicate a misunderstanding of the effect and purpose of EPA's reference to these statutes and regulations.

Effect

Reference to these statutes does not in any way impose upon the Industrial User the obligations and penalties of these laws. The POTW's ability to comply with relevant requirements under these laws simply is used as one of the standards by which to determine the existence of an Interference violation under the Clean Water Act. The primary effect of this reference is to permit the POTW to impose specific limitations on the Industrial User to prevent future Interference with sludge disposal alternatives. By so doing the regulation ensures a sensible coordination of the Acts and regulations affecting POTW sludge use and disposal by enabling the POTW to control discharges from Industrial Users which inhibit any of the POTW's selected methods of sludge disposal.

Purpose. The purpose of these references is to recognize the obligation of POTWs to meet sludge requirements under these referenced statutes, regulations and permits and to provide a means for the POTW to control discharges from Industrial Users that would cause the POTW to violate these sludge standards. For example, land

disposal regulations promulgated under RCRA and the CWA limit the amount of cadmium that can be disposed on land used to grow food-chain crops. (40 CFR Part 257, 44 FR 53438). If a POTW has elected to dispose of its sludge by applying it to food-chain cropland, it must comply with the cadmium limits prescribed by the foregoing regulations. Since POTWs will be held responsible if their sludge is not in compliance, they should have some means of controlling discharges of cadmium from one of its major sources, Industrial Users. In the absence of such authority, the sludge disposal alternatives of the POTW would be limited—a result that is contrary to the intent of Congress in establishing sludge disposal requirements under section 405 of the Act. Accordingly, it is the Agency's position that it is essential to enable POTWs to prevent Interference with any of their sludge disposal alternatives by permitting them to set specific limits for their Industrial Users if the discharges by such Users would prevent their desired method of sludge use or disposal. In addition, where the POTW is not able to take appropriate action to ensure that industrial contributions do not interfere with its sludge-disposal practices, it is important that the State or EPA be able to seek appropriate relief.

Moreover, in an effort to promulgate consistent regulations, EPA and other agencies routinely refer to related statutes. For example, the Consolidated Permit regulations require that "[p]ermits shall be issued in a manner and shall contain conditions consistent with requirements of applicable Federal laws . . .," including the Wild and Scenic Rivers Act, the National Historic Preservation Act of 1966, the Endangered Species Act, the Coastal Zone Management Act, the Fish and Wildlife Coordination Act, the National Environmental Policy Act, and Executive Orders. (40 CFR § 122.12, 45 FR 33428 (May 19, 1980)). The preamble discussion of that section explained that "[t]his does not impose any legal requirements beyond those imposed by the terms of the laws themselves. The purpose of the section is to inform the public and permit-issuers of the requirements applicable to the permit programs regulated under this Part." (45 FR 33311 (May 19, 1980)) See also 33 CFR § 323.4-2(b)(1) where the Army Corps of Engineers refers to the Endangered Species Act in a regulation promulgated under the Clean Water Act.

Legal Authority to Refer to Other Statutes. In addition to the practical reasons for referencing these other statutes, section 501(a) of the Act gives the administrator broad authority to "prescribe such regulations as are necessary to carry out his functions under this Act." Consistent promulgation of regulations is an important Agency function under the Act. Authorities much broader than the authority to preserve consistency and reasonableness of regulations have been held to stem from expansive rulemaking clauses similar to section 501(a). See, e.g., National Petroleum Refiners Ass'n v. FTC, 482 F.2d 672 (D.C. Cir. 1973), cert. denied, 415 U.S. 951 (1974). Cf. Senate Debate on Conference Report, Dec. 15, 1977, reprinted in Legis. Hist., Vol. 3, at 461 (1978) (credit approvals to be conditioned initially on compliance with the Resource Conservation & Recovery Act, subtitles C & D, and later on section 405 of the Clean Water Act.) Moreover, two of the referenced statutes contain provisions specifically requiring the Administrator to integrate and avoid duplication of other Acts which grant regulatory authority to the Administrator. (Section 2006(b) of the Resource Conservation and Recovery Act, 42 U.S.C. § 6905(b); section 9(b), Toxic Substances Control Act, 15 U.S.C. § 2608(b).)

A related issue that has been raised by commenters is whether reference to other statutes and regulations deprives Industrial Users of adequate notice of their requirements under the general pretreatment regulations. The response is twofold. First, in most instances, POTW's will provide Users with notice of the Users' obligations by setting specific limits for those pollutants that cause the POTW to violate the requirements of the referenced statutes. (See § 403.5(c).) Second, § 403.5(e) ensures that the Industrial User will have adequate notice before an enforcement action will be taken for causing or contributing to the POTW's inability to comply with sludge requirements under any of the referenced authorities.

In some circumstances, the State or EPA may enforce the general prohibition of Interference in § 403.5(a) against the Industrial User. However, in these cases the Industrial User will still have sufficient notice because the definition of Interference requires that in order to be held liable under this provision, the User must either: (1) discharge in excess of prescribed effluent limits; (2) discharge wastewater which substantially differs in nature or constituents from the User's average discharge or (3) know or have reason to know that its discharge would result in a permit violation or prevent authorized

sewage sludge use or disposal. The first two requirements create a clear standard of conduct and the last addresses a situation where the User has actual or constructive knowledge that a permit violation or sludge disposal problem would result.

§ 403.3(n) Definition of "Pass Through."

Section 307(b) of the Clean Water Act provides that EPA shall establish national Pretreatment Standards to "prevent the discharge of any pollutant . . . [which] interferes with, passes through, or otherwise is incompatible with [the POTW]." Thus, the Act establishes two main criteria to be considered in setting Standards: the prevention of interference and the elimination of pass through. The selection of appropriate POTW protection standards to guard against Interference is predominately a local determination and it is, accordingly, left largely to the discretion of the POTW. Section 403.5 of the general pretreatment regulation establishes minimum criteria to be incorporated in local prohibited discharge limits.

A concern of greater national scope is directed at the amount of industrial pollutants passing through POTW's across the nation and ending up in our navigable waters. In calling for the establishment of Pretreatment Standards under § 307(b) of the Clean Water Act, Congress recognized that pollutants from industrial sources reaching navigable waters indirectly, after passing through a POTW, can have the same detrimental effect on national waters as pollutants from their direct discharger counterparts.

Thus, in the Federal Water Pollution Control Act and amendments thereto, Congress established a parity between the requirements imposed on direct and indirect dischargers. Both direct and indirect dischargers of toxic pollutants are to be subject to technology-based effluent limitations which will reduce their discharges of toxic pollutants to

acceptable levels.

Section 301(b)(2)(A) of the Clean Water Act specifies that direct dischargers shall be required to meet Standards based on "best available technology economically achievable for [each industrial] category or class" and that indirect dischargers shall be subject to these same requirements. The Conference Report on the Clean Water Act amendments also emphasizes that Standards for indirect dischargers and their direct discharger counterparts shall be similarly determined: "Under the amendment to section 307(b), the Administrator would establish national

pretreatment standards for toxic pollutants based on the best available technology economically achievable, or any more stringent effluent standards under section 307(a)." (Conference Report 95–830, p. 87, reprinted in Legis. Hist., Vol. 3, at 271.)

While recognizing the essential parity between direct and indirect dischargers and electing to regulate them similarly through the imposition of technologybased Standards, Congress also appreciated that the POTW may provide some treatment of the discharge from indirect industries. thus, the Administrator was directed to establish Pretreatment Standards only for those pollutants that pass through, interfere with, or are otherwise incompatible with the treatment works. In addition, in order to avoid redundant treatment, Congress provided for a case-by-case relaxation of nationally-established Pretreatment Standards for indirect dischargers where the POTW can show that it treats any or all of the regulated pollutants. See discussions of removal allowance policy below. In order to preserve the parity between direct and indirect dischargers initially established with the National Standards, Congress required that the treatment provided by the POTW and indirect discharger working in concert shall result in the effluent quality required of a direct discharger. (Section 307(b)(1)).

By so specifying, Congress also established an appropriate standard for assessing unacceptable pass through. According to the language of section 307(b)(1), pollutants from a particular industrial category would be deemed to be passing through the POTW in unacceptable amounts where the POTW effluent violates the limit for that pollutant which a direct discharger in that industrial category would be required to meet.

In recognition of real-world differences between the effluents of POTWs and industries, the Agency has interpreted this provision to require a comparison of the percent removal of pollutants at an industry applying Best Available Technology with the percent removal of pollutants at the POTW. While it might be argued that comparison of effluent quality would be more appropriate than comparison of percent removals, the Agency disagrees with this position. If one were to compare the mass loadings of regulated pollutants at the end of a POTW and at the end of a regulated industry, the POTW's discharge, because its effluent is a composite of the effluents from various contributing industries and other sources, would likely exceed the amount

of pollutants allowed for a single direct discharger. A similar problem however attends the use of concentration-based limits. Because of the great amount of non-industrial-wastewater flowing into and from a POTW, the concentration of a particular toxic parameter at the end of the POTW would, as the result of dilution, most often be less than the concentration required of a direct discharger. Thus, it appears that the proper parity between direct and indirect dischargers cannot be determined by looking at the effluent quality from the POTW in comparison with effluent quality from a direct discharger. Instead, the Agency has sought to achieve the underlying intent of this provision by focusing on a comparison of the removals provided by direct dischargers and POTWs.

In determining whether a particular pollutant is Passing Through the POTW and is, therefore, appropriately subject to regulation through categorical Pretreatment Standards, the Agency compares POTW removal with removal obtained by a direct discharger. A pollutant will be deemed to Pass Through the POTW, and will thus be characterized as incompatible, where the average treatment provided by POTWs nationwide does not realize the same percentage of removal of the regulated parameter as would be required of direct dischargers with national effluent standards for that pollutant. Thus, if, in order to comply with their direct discharge BAT standard, direct dischargers in category Y were required to remove 85 percent of pollutant X, then POTWs must achieve an average of at least 85 percent removal of pollutant X in order to avoid reaching the conclusion that pollutant X presents a Pass-Through problem.

Where pollutants are regulated in categorical Pretreatment Standards through application of this pass-through justification, there should be no need to bring case-by-case enforcement actions based on a similar theory. Thus, EPA does not intend to assess case-by-case Pass-Through liability against an Industrial User where the removal provided by the User's particular POTW is not as great as the removal obtained by a direct discharger in that User's industrial category. Instead today's regulation limits its Pass-Through action to cases in which pollutants introduced into the POTW Pass Through is in quantities which result in a violation of the POTW's NPDES permit limits. Under this definition of Pass-Through, liability is predicated on demonstrations similar to those enumerated in the Interference definition. The User is liable for a PassThrough violation where he discharges in excess of Federal, State or local limits or discharges wastewater which substantially differs in nature and constituents from the User's average discharge. Subparagraphs (3) and (4) of § 403.3(n) recognize that, in addition to the liability imposed by subparagraphs (1) and (2), a User may be held liable for a Pass Through violation where the User knows, or reasonably should have known, that his Discharge could result in a permit violation or increase the duration or magnitude of such a violation.

The Agency is publishing the definition of Pass Through in final form today. The cause of action and standard of liability for Pass Through and Interfence violations are almost identical. EPA received considerable comment on the proposed Interfernce standard, and the final definitions of Pass Through and Interference reflect these comments. Because the language and conceptual underpinnings of these two provisions are so similar, the Agency believes that it is unnecessary to propose the definition of Pass Through.

§ 403.3(a) Definition of "Publicly Owned Treatment Works" or "POTWs."

The definition of "POTWs" in the general pretreatment regulations conforms to the definition of this term found in § 122.3 of the Consolidated Permit regulations. Both regulations do not include within the definition of POTWs, sewers, pipes or other conveyances that do not convey wastewater to a treatment facility. Industries that routinely discharge their wastes into such sewers, pipes or other conveyances are direct dischargers and are subject to NPDES permit requirements.

§ 403.3(q) Definition of "Pretreatment"—Use of Equalization Tanks.

The proposed amendments to this section elaborate on the definition of "pretreatment" by indicating that, in appropriate circumstances, the use of equalization tanks constitutes an acceptable pretreatment technology. The proposed comment to this section provides further that where equalization tanks are resulting in dilution, the Control Authority should impose mass limits on the facility. Several commenters expressed concern with this proposed comment explaining that one of the functions of equalization tanks is to dilute high concentrations of pollutants to lower, more acceptable levels. These commenters concluded that the proposed amendment would

frequently result in the imposition of mass limitations since dilution almost invariably accompanies the use of equalization tanks.

EPA agrees that the language of this proposed amendment awkwardly expresses the intention of the provision. The object of the provision is to recognize that the use of equalization facilities is an appropriate means of achieving the concentration limit imposed by an applicable categorical Pretreatment Standard on a given regulated process. However, when the regulated process waste is mixed in an equalization tank with wastewater from an unregulated process or wastewater from another regulated process, the result is unacceptable dilution of the regulated wastestream. In such circumstances, EPA believes that the appropriate recourse is to apply the combined wastestream formula set forth in § 403.6(e) to the effluent from the equalization tank rather than imposing mass limitations on the flow from the tank as previously proposed.

Thus, EPA has amended § 403.3(q) by making it clear that equalization tanks are an appropriate means of pretreating the wastes within a regulated process. However, the amended regulation provides that where the wastewaters from an unregulated process or process regulated by another Standard are mixed in an equalization facility with the regulated process water in question, the limits applied to the effluent should be calculated in accordance with the combined wastestream formula set forth in § 403.6(e).

§ 403.5(a) Prohibited Discharges— General.

The first sentence of this section has been modified for clarification. "Nondomestic source" has been substituted for "source of a non-domestic discharge" to be consistent with the change to § 403.1(b) concerning regulated sources. In addition, the Agency has included a prohibition on allowing pollutants to "Pass-Through" the POTW. Unacceptable "Pass-Through" is defined in § 403.3(n). As indicated in the preamble discussion on § 403.3(n), the Agency believes that the institution of Pass-Through prohibitions is necessary to meet the mandate of Section 307(b) of the Clean Water Act.

§ 403.5(b)(4) Prohibited Discharge—. Slug Loans.

Section 403.5(b)(4) as promulgated in the June 26, 1978 regulations established a strict liability standard for Industrial Users. That provision prohibited the contribution of "any pollutant—released in a discharge of such volume or strength as to cause Interference in the POTW." Following negotiations with industry groups, EPA agreed to propose changes to this provision. Industry groups were concerned that the language appearing in the 1978 regulation did not present a clear standard to which the industry could conform. The proposed language amended the prohibitions by introducing a foreseeable-consequences standard. Under the amended language proposed in October, the Industrial User would be held liable under § 403.5(b)(4) if he "knows or has reason to know" that his discharge would cause Interference.

EPA agrees that a clearer standard should be established. However, because the definition of "Interference" found in § 403.3(i) has now been amended to include a similar knowledge standard for certain situations (as well as a much more specific standard in other situations), the inclusion of the knowledge requirement in § 403.5(b)(4) is unnecessary. Therefore, the final regulation published today has deleted the knowledge requirement from the provisions of § 403.5(b)(4).

Several commenters expressed concern that the knowledge standard standing alone falls short of describing an acceptable standard of performance. We believe that the more explicit language set forth in § 403.3(i) gives Industrial Users better notice of the standard to which they are to conform.

§ 403.5(b)(5) Prohibited Discharge— Heat.

The June 1978 regulations placed a maximum temperature limit of 40°C (104°F) on the influent to the POTW, but did not specify a maximum temperature to be met at the Industrial Users' effluent. The proposed amendment to this section added the requirement that an Industrial User limit the temperature of its discharge to the POTW to 65°C (150°F). This requirement was designed to provide the Industrial User with clearer notice of the maximum temperature that can be discharged safely into a POTW.

Only two commenters supported this proposed change. A number of commenters objected to the new provision as unnecessary and overly restrictive. The chief objection to the proposal was that the 65° C limitation on discharges to the sewer is not logically related to the temperature necessary to protect the POTW plant. Commenters argued that the maximum allowable temperture for the Industrial User would vary depending on changing factors, such as the quantity of the discharge and the distance the water must travel, which have a great effect upon the

resultant POTW plant temperature.
Those objecting to the 65° C limit
uniformly asserted that the original
provision was superior and that the
imposition of stricter limits, if necessary,
should be left to the discretion of the
POTWs.

EPA agrees with the majority of the commenters and has returned to language similar to that originally promulgated in June of 1978. We believe that the concern for sufficient notice which inspired the proposed change is adequately addressed by the changes made to the definition of "Interference." in § 403.3(i). As indicated previously, the new definition of Interference includes a clear standard of liability. Municipal authorities are encouraged to exercise the authority provided in § 403.5(b)(5) and (c) and set specific temperature limits on Industrial Users posing potential problems in order to erase all uncertainty as to acceptable effluent temperatures.

§ 403.5(c) Prohibited Discharges— POTW-Specific Limits.

Several commenters sought clarification of the provisions in amended § 403.5(c) prescribing those instances in which a POTW will be required to translate the general prohibitions in § 403.5(a) and (b) into source-specific effluent limits. Section § 403.5(c) provides for the development of specific limits in two situations. First, paragraph (c)(1) requires that POTW's developing pretreatment programs pursuant to these regulations translate the general prohibitions of § 403.5(a) and (b) into industry-specific limits. These limits are developed initially as a prerequisite to POTW pretreatment program approval and are updated thereafter as necessary to reflect changing conditions at the POTW. The limits may be developed on a pollutant or industry basis and may be included in a municipal ordinance which is applied to the affected classes. In addition, or alternatively, the POTW may develop specific limits for each individual facility and incorporate these limits in the facility's municipally-issued permit or contract. By translating the regulations's general prohibitions into specific limits for Industrial Users, the POTW will ensure that the users are given a clear standard to which they are to conform.

The second paragraph of § 403.5(c) provides that all POTWs not required to develop a pretreatment program only have to develop specific prohibitive discharge limits where an Interference or Pass-Through-problem has occurred and is likely to recur. This paragraph further provides that in developing these

prohibitive discharge limits to "ensure renewed and continued compliance," the POTW may, at its discretion, seek to regulate not only Industrial Users, as defined by this regulation, but, in addition, any other source which might be contributing to the Interference or Pass-Through problem. Under the provisions of the paragraph, the POTW may supplement source control with any changes in the POTW's treatment plant facility or operation needed to resolve the Interference or Pass-Through problem.

To the extent that the POTW elects to control the recurrence of a Pass-Through or Interference problem through modifications in its facilities or operations or through imposition of controls on sources other than Industrial Users, the limits placed on Industrial Users would be correspondingly less stringent. The comment following this paragraph indicates that in some instances, where the Pass-Through or Interference problem results from compatible pollutants which the POTW was designed to treat, the burden of correcting the problem may more appropriately lie with the POTW itself through adjustment of its facilities or operation.

Changes have been made in the phrasing of this comment as it appeared in the proposed regulations. The wording of the proposed comment implied that liability for non-compliance with NPDES permit provisions rests ultimately and entirely with the POTW. This is obviously not true where an Industrial User's contribution is found to be a cause of the violation. In such a case, the provisions of § 403.5 clearly place liability directly on the User. The comment is intended to reflect an Agency policy that responsibility for avoiding Interference and Pass-Through problems may be shared, where appropriate, by the Industrial User and its users. The revised wording places emphasis more appropriately on the cooperative nature of this effort.

Paragraph (3) of § 403.5(c) adopts the proposed language requiring the POTW to provide notice and comment prior to developing and enforcing specific effluent limits for Industrial Users.

§ 403.5(d) Prohibited Discharges— Incorporation in Permits.

This section has been amended to adopt the language of the proposal and eliminate the resource-demanding need to modify an NPDES permit each time a POTW changes a specific discharge prohibition. The requirement that such prohibitions be incorporated in the permit has been deleted. Instead, as the proposed modification indicated, these

POTW-developed limits will be deemed "prohibitions" for the purposes of section 307(d) of the Act. As such, a violation of these prohibitions is enforceable both against the applicable Industrial User and against the POTW under section 309 of the Act.

One commenter suggested that this section should allow enforcement of POTW-developed limits only after public notice and opportunity for comment regarding imposition of such limitations. In light of the public notice requirement added to § 403.5(c), the Agency believes additional language to that effect in this section is unnecessary.

§ 403.5(e) EPA/State Enforcement of Prohibitive Discharge Limits.

The next to last sentence of § 403.5(c) as proposed in October has been reorganized to form new paragraph (e) in the final regulation. This paragraph provides that, upon identifying a Pass-Through or Interference violation, the State or EPA will give the POTW an opportunity to take prompt and effective remedial action. State or federal action is available where the POTW fails to commence appropriate enforcement action within the 30-day period provided by the regulation.

§ 403.5(f) Compliance Deadlines.

Compliance with the provisions of § 403.5, except for paragraph (b)(5) is required beginning on March 13, 1981. No additional time has been given to meet the prohibited discharge standards set forth in this section because these standards have been in effect in substantially similar form since August 25, 1978, and no additional time is necessary to comply with them.

§ 403.6(a) Category Determinations. § 403.6(a)(1) Category Determination Request.

This provision has been modified to allow more time for filing of requests for category determinations. It has also been expanded from the proposal to include notice for the affected Industrial User in the case where a POTW requests a category certification.

The proposed amendment shortened the period for making categorical determination requests from thirty days after the effective date of a Pretreatment Standard to thirty days after the promulgation date of a Standard. Many commenters objected that this was an unrealistically brief period based on the normal time requirements associated with receiving, reviewing and responding to complex Federal Register regulations. Other commenters noted that before requesting a determination,

the Industrial User needed the opportunity to review the details and rationale of its industry's subcategorization. This material is found in the technical development document published in conjunction with each categorical Standard. Although the development document is to be made available to the public at the time the Standard is promulgated, this has not always been the case. To address these concerns, EPA has extended the period for requesting categorical certifications to 60 days after the effective date of a Pretreatment Standard or after the date the development document becomes available, whichever is later. This expanded period should allow adequate time to review Standards, especially since many of the Standards and associated development information will have been made available to the public before final promulgation in the form of proposed standards and preproposal drafts.

In response to a comment, a sentence has been added to this section specifying that if a new source wishes to request a categorical certification, it must do so prior to commencing discharge.

One reader interpreted the proposed wording of the section as requiring an implicit admission of subcategory classification since an Industrial User would apparently need to "believe itself to be included" in a subcategory prior to submitting a request for administrative determination of applicability. This commenter also noted that the provision could be read to suggest that an Industrial User which, although possibly covered by a Standard, believed itself not included could rely on that belief and take no action to come into compliance. These suggested interpretations do not fall within the intent of the section. This section is intended as a mechanism to resolve legitimate questions of applicability and notify Industrial Users of applicable Standards when there is some doubt. A certification will provide an Industrial User with certainty regarding its specific categorical limits. The language has therefore been clarified to provide that an Industrial User may request a category determination if it believes that it "may be included" under a categorical Standard. If an Industrial User is in doubt as to the applicability of a Standard and it cannot be resolved by his preliminary inquiries, he should request a determination so the confusion can be eliminated as soon as possible.

Finally, the Agency agrees with those commenters who suggested that if POTWs are to be authorized to request

categorical certification for Industrial Users, the Users should be notified of the request and provided with an opportunity to comment on it. Language to this effect has been added to this section.

§ 403.6(a)(4)(iii) Category -Determination—Final Decision.

The amendments to this section identify those parties who may submit requests to the Enforcement Division Director by adding the phrase, "by the Industrial User or POTW". This addition distinguishes those direct submissions from decisions by the Director that are forwarded to EPA for review.

§ 403.6(a)(4)(iv) Category Determination—Notice of Decision.

The language of this section has been altered to require that the decision on the categorical determination be sent to both the affected Industrial User and the POTW in conformance-with the change in § 403.6(a)(1).

§ 403.6(a)(5) Category Determination— Requests for Reconsideration.

The amendment to this section deletes the provision allowing for a hearing on the determination of an industry's subcategory classification. The section provides instead that those wishing to challenge a categorical determination may submit a petition to reconsider the decision to the Regional Administrator who will respond expeditiously in writing. Another change clarifies that not only may the original requestor file a reconsideration petition, but also the affected Industrial User where the original request was made by a POTW.

Comments were divided on the deletion of the opportunity for a hearing. Certain commenters contended the opportunity to request a hearing should be retained as a means of avoiding litigation and assuring procedural guarantees. Other commenters felt the deletion was acceptable in light of the deletion of § 403.6(a)(6). The Agency agrees with those supporting the hearing deletion. The amended section still provides a mechanism for reconsideration of an EPA decision. The Regional Administrator's decision on petitions for reconsideration will constitute final Agency action and is thereby subject to judicial review. Further, the deletion of § 403.6(a)(6) means an Industrial User may raise as a defense in an enforcement action the fact that it is not in the industrial subcategory alleged by the Agency. Industrial Users are therefore assured the opportunity to raise the issue in a proceeding with adequate procedural protections.

Two commenters protested that the thirty-day period for requesting reconsideration was too brief. This provision remains unchanged from the original regulation and EPA believes it allows adequate time for appeal.

§ 403.6(a)(6) Category Determination— Failure To Request.

This paragraph, which provided that Industrial Users failing to seek a determination as to the appropriate subcategory within the prescribed time would be bound by EPA's subsequent determination as to the subcategory. was deleted in the proposed amendments. After reviewing the comments EPA continues to believe that it can not legally bar an Industrial User from raising as a defense to an enforcement action the allegation that the facility is not in the industry category claimed. Therefore, today's final regulation also deletes former paragraph (a)(6).

§ 403.6(d) Prohibition on Dilution.

The provision allowing Control Authorities to impose mass limits on Industrial Users using dilution to meet Pretreatment Standards has been moved from § 403.12(e)(2) to § 403.6(d). This provision is more appropriately placed in § 403.6(d), which deals generically with the question of dilution, than in the reporting requirements section under § 403.12.

Prohibition on Dilution—Generally. The imposition of Pretreatment Standards and requirements is meant to achieve three major objectives, one of which is the prevention of surges in either volume or concentration of pollutants which might interfere with the operation of the POTW. While the use of equalization tanks is an appropriate technology for protection against such surges and slug loadings, EPA does not feel that the reduction of concentration by dilution is an appropriate means of addressing the two remaining objectives of the program: reduction of the total amount of pollutants passing through the POTW untreated, and reduction of pollutants migrating to the municipal sludge in unacceptable quantities. This proscription on dilution finds its basis in the legislative history of the Act, consistent Agency policy, and judicial decisions.

It has been the consistent policy of the Agency that dilution is no substitute for treatment of pollutants. The General Pretreatment regulations promulgated in 1978 clearly stated this policy. The underlying policy of the Clean Water Act is to reduce the amount of pollutants entering the Nation's waters. (Section 101.) This policy will not be met if

Industrial Users discharge the same mass of pollutants at a lower concentration rate. While dilution may in the short term minimize some water quality problems, it does not reduce the mass of pollutants entering the POTW.

It has been argued that a prohibition of dilution should only apply to direct dischargers because POTWs provide sufficient treatment of pollutants. This argument would only have merit if POTWs were able to eliminate the pollutants. However, the recent data discussed earlier demonstrates that this does not occur. Pollutants regulated under categorical Pretreatment Standards pass through the POTWs, contaminate the POTWs sludge, or interfere with operation of the treatment works. Dilution does not solve these problems. In fact, dilution worsens the removal efficiency of the POTWs because the treatment technology operates less efficiently on dilute streams.

Congress considered the question of dilution as a substitute for treatment in the context of reservoir planning in section 102(b)(1) of the Act. As enacted, section 102(b)(1) provides for consideration of water storage as a mans of regulating stream flow, "except that any such storage and water releases shall not be provided as a substitute for adequate treatment or other methods of controlling waste at the source." This provision was described in the Conference Report as specifically banning pollution dilution as an alternative to waste treatment. (Conference Report 92-1236, at 101; reprinted in Legis. Hist., Vol 1 at 284.)

Furthermore, this legislative history was held by the U.S. Court Of Appeals for District of Columbia Circuit to be "a general view not limited to the [the reservoir storage issue]." Hercules, Inc. v. EPA, 598 F.2d 91, 108 n. 30 (D.C. Cir. 1978). In Hercules, the court upheld EPA's use of mass limitations as an alternative to concentration limitations for toxic pollutants, stating that the use of mass limits was supported by the 1972 Act "in order that [EPA's] effluent discharge standard would not be subverted" by dilution. (598 F.2d at 108.)

One commenter cited Ford Motor Co.. v. EPA, 567 F.2d 661 (6th Cir. 1977) for the proposition that prohibition of dilution is impermissible. This was not the holding of that case. In the Ford case, a Ford plant was meeting EPA-imposed best practicable technology effluent limits and wanted to dilute its waste stream to meet the more stringent Michigan water quality standards. EPA vetoed Ford's NPDES permit modification which would have allowed this dilution. The Agency, however, had

not officially stated its policy that dilution to meet State water quality standards was impermissible. On appeal, the court held that EPA's veto was invalid because the underlying policy had not been publicly declared prior to the veto. The court did not hold that dilution was permissible under the Clean Water Act, but rather that if EPA was going to prohibit dilution, it would have to announce its policy in regulations or guidelines. By including a statement of the Agency's position on dilution in the June 1978 regulations and again in today's regulations, EPA remedied the principal concerns raised by the Sixth Ciruit in the Ford case.

§ 403.6(e) Combined Wastestream Formula.

Introduction. The proposed addition of this section generated substantial comment. At issue was the method for calculating alternative pollutant limits at industrial facilities where regulated process effluent is mixed with other wastewaters (either regulated or unregulated) prior to treatment. The formula proposed in October was not new. It was originally included as part of the National Prefreatment Strategy which appeared as Appendix A to the June 26, 1978 general pretreatment regulations. Since that time, increasing evidence has indicated the widespread importance of such a procedure to a large segment of industries to be regulated by national categorical Pretreatment Standards. In the October 1979 proposal, the Agency revealed its decision to formalize this procedure as part of the regulations to eliminate uncertainty among Control Authorities and affected industries, and to ensure consistent application nationwide.

The importance of a formula to explain how effluent limitations will be adjusted when several streams are combined is of primary importance to large, diversified Industrial Users with multiple processes. These Industrial Users of POTWs frequently have a number of individual processes producing different wastestreams that are not regulated by the same categorical Pretreatment Standard or are not regulated at all. Many of these integrated facilities have combined process sewers and a number have already constructed combined waste treatment plants. In these situations, the Industrial User often prefers to install a pretreatment system on the combined stream rather than installing separate parallel systems on each individual stream. A combined wastestream formula permits a facility to mix wastestreams prior to treatment by

providing it with an alternative effluent limit for this combined discharge.

EPA wishes to minimize the need for separation of wastestreams and for treatment by parallel systems when comparable levels of treatment can be attained in combined treatment plants. Separate treatment of wastes at an integrated plant can be costly, wasteful of energy, inefficient and environmentally counterproductive. In addition, such an approach reduces the environmental gains resulting from the voluntary treatment of unregulated streams prior to the imposition of regulatory requirements. However, the agency also recognizes that the countervailing concerns of avoiding the attainment of limits through dilution and ensuring that adequate treatment is provided may sometimes lead to the conclusion that segreation of steams is the only appropriate way to meet applicable pretreatment limits. The final formula attempts to strike a proper balance between these considerations.

The combined wastestream formula proposed in the October 1979 package was critized by most commenters. EPA agrees that the proposed formula for calculating an alternative effluent limit would have made combined treatment of wastestreams impractical in most cases. The proposed formula assumed that there was only one regulated process contributing to the mixed discharge. It also established a de facto zero discharge limit for the unregulated wastestreams being combined by taking no account of the presence of pollutants in those streams. While the formula was intended to permit combined treatment where process effluent was mixed with other wastewaters, in practice this objective was frustrated by creating combined stream limits that were technically unattainable in most

The combined wastestream formula promulgated in these amendments rectifies the problems with the original proposal. It will permit combined treatment of wastewater in many cases. Some restrictions are imposed on the combination of certain streams to protect against abuse of the process. Formulas for calculating both concentration and mass-based alternative effluent limits have been promulgated.

Alternative Discharge Limit. Where the combined wastestream formula is utilized it will result in fixed alternative categorical limits for the Industrial User. The calculation of the alternative limits may be performed by the Control

Authority or by the Industrial User with the written concurrence of the Control Authority. These alternative discharge limits must be complied with by the Industrial User in lieu of the promulgated national categorical Pretreatment Standards and are enforceable as such.

In most cases, several calculations will be necessary to establish the alternative limits. An alternative categorical limit must be established for each regulated pollutant in each regulated process stream that is treated in the combined treatment facility. For each regulated pollutant both an alternative daily maximum limit and an alternative long-term average limit shall be calculated. These calculations will use the values set forth in the appropriate categorical Standard.

Once established, an Industrial User's alternative categorical Pretreatment Standards shall remain fixed until modified by the Control Authority. The Control Authority may recalculate the alternative limits at any time at its discretion or in response to a request by the Industrial User because of material or significant changes in any of the values used in the calculation to establish the alternative limits. To insure that the Control Authority has notice of any changes which justify a modification, the Industrial User must report any such material and significant changes immediately. Where these changes justify new alternative limits they shall be calculated and effective within 30 days.

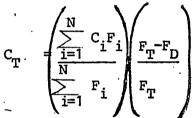
The Control Authority may, of course, elect to impose limits which are more stringent than those established by the formulas in this section. However, a Control Authority may not allow alternative limits at a level less stringent than those established by this section.

Formula. The adopted concentration formula sets the alternative concentration limit for each pollutant by multiplying the categorical limit for a regulated stream by the flow of that stream and then adding the resultant products for all regulated wastestreams that are combined. This amount is then divided by the sum of the flow for each regulated stream. In statistical terms, a flow-weighted average of the categorical Standards is taken over the regulated streams. If only regulated streams are being combined, this is all one would have to do the compute the alternate limit. However, if the User combines regulated with unregulated streams, to prevent inappropriate dilution, the resulting number is multiplied by a

fraction, the numerator of which is the total flow through the treatment system minus certain dilute streams. The denominator for this fraction is the total flow through the treatment facility. If the unregulated streams are not dilute streams as defined by $F_{\rm D}$, the fraction becomes 1 and no further adjustment is made on the alternative limit. If an unregulated stream is a dilute stream, this fraction will adjust the alternative limit to account for the dilution that is taking place.

Mass-based limits are established by adding the categorical mass limits for a pollutant in each regulated stream. The sum is multiplied by a fraction to account for dilution. The numerator is the total flow through the treatment facility minus the flow of certain dilute streams. The denominator for the fraction is the sum of the flow of the regulated streams. These formulas are as follows:

(1) Alternative Concentration Limit



Where

C_T=the alternative concentration limit for the combined wastestream

C_i=the categorical Pretreatment Standard concentration limit for a pollutant in the regulated stream i

F_i=the average daily flow (at least a 30day average) of stream i to the extent that it is regulated for such pollutant.

F_D=the average daily flow (at least a 30-day average) from boiler blowdown streams, non-contact cooling streams, sanitary wastestreams (where such streams are not regulated by a categorical Pretreatment Standard) and from any process wastestreams which were or could have been entirely exempted from categorical Pretreatment Standards pursuant to paragraph 8 of the NRDC v. Costle Consent Decree (12 ERC 1833) for one or more of the following reasons:

(1) the pollutants of concern are not detectable in the effluent from the Industrial User (paragraph (8)(a)(iii));

(2) the pollutants of concern are present ony in trace amounts and are neither causing nor likely to cause toxic effects (paragraph (8)(a)(iii));

(3) the pollutants of concern are present in amounts too small to be effectively reduced by technologies known to the Administrator (paragraph (8)(a)(iii)); or

(4) the wastestream contains only pollutants which are compatible with the POTW (paragraph (8)(b)(i)).

F_T=the average daily flow (at least a 30-day average) through the combined treatment facility (includes Fi. Fp and unregulated streams)

N=the total number of regulated streams

(2) Alternative Mass Limit

$$\mathbf{M}_{\mathbf{T}} = \left(\frac{\sum_{i=1}^{N} \mathbf{M}_{i}}{\sum_{i=1}^{F_{\mathbf{T}} - F_{D}}} \right)$$

where

M_T=the alternative mass limit for a pollutant in the combined wastestream. Mi=the categorical Pretreatment Standard mass limit for a pollutant in the regulated stream i (the categorical pretreatment mass limit multiplied by the appropriate measure of production).

F,=the average daily flow (at least a 30day average) of stream i to the extent that it is regulated for such pollutant.

FD=the average daily flow (at least a 30day average) from boiler blowdown streams, non-contact cooling streams, sanitary wastestreams (where such streams are not regulated by a categorical Pretreatment Standard) and from any process wastestreams which were or could have been entirely exempted from categorical Pretreatment Standards pursuant to paragraph 8 of the NRDC v. Costle Consent Decree (12 ERC . 1833) for one or more of the following reasons:

(1) the pollutants of concern are not detectable in the effluent from the Industrial User (paragraph (8)(a)(iii));

(2) the pollutants of concern are present only in trace amounts and are neither causing nor likely to cause toxic effects (paragraph (8)(a)(iii));

(3) the pollutants of concern are present in amounts too small to be effectively reduced by technologies known to the Administrator (paragraph (8)(a)(iii)); or

(4) the wastestream contains only pollutants which are compatible with the POTW (paragraph (8)(b)(i)).

F_T=the average daily flow (at least a 30-day average) through the combined treatment facility (includes F. FD and unregulated streams)

N=the total number of regulated streams

The streams represented in the formula by the symbol FD are those which have been found to contain no

toxic pollutants or low levels of toxics. If such streams were to be combined with regulated streams without factoring in their dilution impact, it is possible that the effluent limit would be met by dilution and, consequently, no treatment would be required on the combined wastestream. Such a result would mean no pollutant reduction from the Industrial User and be contrary to the mandate of the Clean Water Act (see preamble discussion on dilution under

The definition of F_D has carefully specified which of those streams exempted from regulation pursuant to paragraph 8 of the Consent Decree are dilute streams. The dilute streams include those exempted from coverage under paragraph 8 because they contain trace or non-detectable amounts of the 129 priority pollutants. Those process wastestreams exempted from regulation under the provisions of paragraph 8 because they are found in only a small number of sources nationwide are not

treated as dilute streams.

The regulation states that the "average daily flow" means a reasonable measure of the average daily flow for a 30-day period. The Control Authority should ensure that the flow values used to calculate this 30-day average are representative of the Industrial User's normal flow during periods of production. An Industrial User may demonstrate the accuracy of his figures using any historical data or data from actual flow monitoring conducted for purposes of this

Section 403.6(e)(2) provides that an alternative pretreatment limit calculated by the formula may not be used if the alternative limit is below the analytical detection limit for that pollutant. This prohibition is necessary to provide the Control Authority with a means of checking compliance. If the alternative limit is below the detection limit there is no way to demonstrate that the appropriate level of treatment has been achieved. Where the alternative limit is below the detection limit, the Industrial User has the option of not combining the dilute streams represented by Fn prior to his combined treatment facility or segregating his wastestreams entirely. It should be noted that where the cost of segregating already-combined wastestreams is wholly disproportional to the cost of compliance considered by EPA in setting the Pretreatment Standard, the Industrial User may be eligible for a variance under the provisions of § 403.13.

Monitoring Requirements. A certain amount of monitoring is required to establish and maintain these alternative

limits. When only a single regulated stream is being combined with unregulated streams which are not dilute streams, no flow or pollutant monitoring is required prior to treatment in order to calculate the alternative limit. When more than one regulated stream is combined, each such stream must be flow-monitored prior to combination. The total flow through the combined treatment facility and the flow of the dilute streams represented by FD must also be monitored when a dilute stream is combined prior to the treatment facility.

The type and the frequency of sampling, analysis and flow measurement needed to determine compliance with the alternative discharge limit will be the same as that required by the self-monitoring requirements in the applicable categorical Pretreatment Standards. Those requirements will be spelled out in detail in each Standard. If the selfmonitoring schedules for the appropriate categorical Pretreatment Standards differ, monitoring shall be done according to the most frequent schedule. In certain categorical Pretreatment Standards, regulated flow determines the frequency of self-monitoring. In those cases, the sum of all regulated flows combined in the treatment facility is the flow to be used to determine selfmonitoring frequency.

Discussion. Before selecting the approach promulgated in these regulations, the Agency considered many options. A number of formulas were suggested in the comments on this section. Further possibilities evolved from variations or combinations of the suggested formulas. The Agency believes the selected approach will be fair to integrated Industrial Users while achieving environmental results comparable to those achieved by treating regulated wastestreams separately. These considerations of environmental versus economic impact dominated EPA's deliberations on this issue.

Many commenters stressed that the original combined wastestream formula would force segregation of wastestreams and separate treatment of process wastewaters in most cases. This would occur because the formula did not take into account the presence of pollutants in the unregulated streams. The initial formula adjusted the categorical effluent limit by lowering it in proportion to the flow of the other streams mixed with the regulated stream. This often produced an alternative effluent limit either below the analytical detection limit or below

the treatability level. In either instance segregation of streams would have resulted as a practical matter. Although the Agency does not have sufficient data to estimate with confidence the percentage of existing integrated facilities which would have been required to segregate wastestreams under the proposed formula, comments indicated it could have been substantial. Commenters also argued that the cost of this segregation would be high while the environmental benefits would be questionable compared to alternative proposals. EPA believes that the selected formula adequately addresses these concerns.

The Agency's concern about forcing segregation of wastestreams as a practical matter is most clearly brought to light in the electroplating category. It is the Agency's policy not to establish BAT standards which would be inconsistent with the technology routinely installed to meet BPT requirements. However, the BPTequivalent electroplating categorical Pretreatment Standards for existing sources promulgated in September 1979, regulated individual electroplating process wastestreams. On the other hand, the BAT-PSES Metal Finishing regulation, which is scheduled for promulgation in November 1981, and which includes electroplating activities, will probably contain limitations that will allow wastestreams to be combined after appropriate isolated treatment for certain pollutants (e.g., cyanide destruction). This change could work a tremendous hardship on integrated facilities with electroplating operations. The BPT-equivalent electroplating Pretreatment Standards might require segregated treatment of wastestreams, whereas the BAT standards for these Industrial Users will probably allow combined treatment for most of these same wastestreams. We have adopted a combined wastestream approach that will eliminate this result by allowing the appropriate wastestreams to be combined in meeting the BPT-equivalent electroplating Pretreatment Standards.

The selected option accomplishes several goals. It avoids the need for segregation and parallel treatment in many cases since the alternative indirect discharge limit should not fall below the level of treatability achievable in a combined system unless the User is combining inappropriate streams. Thus, many Industrial Users will be saved the cost of installing multiple treatment systems. This formula also reduces, relative to other formulas that were considered, the monitoring burden on a facility and the

corresponding administrative burden on the control authority to oversee the monitoring.

In addition to monitoring and cost savings for integrated facilities, the selected formula can result in environmental benefits. An Industrial User may have process wastestreams which contain environmentally significant levels of pollutants but which are not yet regulated. If the User decides to install a combined treatment facility. it is more likely to treat such streams prior to Standards being promulgated.

The primary drawback of the formula is that it allows higher mass loadings of pollutants to be discharged where combined unregulated streams containregulated pollutants at a concentration below the categorical limit established for a regulated stream. There is insufficient data to estimate how often use of the formula will result in such dilution. As mentioned above there are corresponding gains where pollutant levels are higher than the categorical limits. The formula promulgated today strikes a proper balance between these environmental trade-offs. Short-term environmental gains will be realized where unregulated wastestreams with high levels of pollutants (most often wastestreams which are scheduled for future regulations) are combined with regulated streams and treated jointly. As additional categorical Standards are promulgated, the number of unregulated wastestreams with high levels of pollutants should decrease, and an increasing proportion of the combined unregulated streams will have lower pollutant levels. While this shift may result in some environmental loss through dilution, it is anticipated that the dilution factor in the combined wastestream equation will maintain a proper balance between environmental gains and losses.

The comments of several persons could be read to criticize the adopted formula because it imposes limits on pollutants in wastestreams not regulated by categorical Standards. To illustrate, under the promulgated formula, if an unregulated stream with high concentrations of regulated pollutants is. mixed with a regulated stream with a lower concentration limit, the higher pollutant levels in the unregulated stream must be "reduced" so that the concentration of the combined effluent after treatment does not exceed the concentration for the regulated stream specified in the categorical Standard. These commenters recommended that a formula be utilized which takes full account of the presence of regulated pollutants in the unregulated streams.

They argued that to do otherwise would be to de facto regulate the pollutant levels in these unregulated streams, an improper exercise of authority in the absence of a promulgated categorical Standard.

We disagree that the effect of the selected formula is to improperly regulate an unregulated stream. The Agency is directed by the Act and the provisions of the NRDC Consent Decree to develop technology-based standards for specific industrial subcategories. Where an industry elects to mix the process effluent from various subcategories with unregulated process water before treatment, the Agency believes that it has the discretion to impose those conditions reasonably necessary to ensure that BPT or BAT level treatment is provided for the regulated streams. The industry always retains the option of segregating unregulated streams and providing treatment only for the regulated streams.

A second drawback of the alternative concentration limit fomula is that it provides no incentive for an Industrial User to conserve water. However, the availability of the formula to calculate an alternative limit in terms of mass insures that no facility is penalized for their conservation efforts.

The bulk of the commenters endorsed a combined wastestream formula which in all cases would produce an alternative pollutant limit requiring removal equivalent to that achieved by separate treatment. Under this approach, the alternative limit would reflect full credit for the pollutants in any combined wastestreams not regulated by a categorical Pretreatment Standard. EPA rejected this approach for two major reasons. First, some commenters suggested that this formula would, in many cases, effectively bar combined treatment and force stream segregation with little environmental benefit. This would occur when combined unregulated streams contained regulated pollutants at lower levels than the categorical limit, resulting in alternative effluent numbers less than the treatability level of the combined wastestream. Second, if the Agency were to avoid the foregoing problem it would have to develop a process to respond to requests to ameliorate the impact of this equation by relaxing the untreatably low limits to reach the treatability level. This caseby-case calculation of treatability levels for combined waste systems would impose a heavy resource burden that EPA and the States are not capable of supporting.

EPA also rejected the option of not adopting any formula, and relying

instead on guidance and the discretion of local pretreatment authorities to regulate combined streams as they deemed appropriate. As discussed earlier, the Agency decided it was necessary to promulgate a formula to eliminate confusion and provide national uniformity and equity in the application of federally-developed Standards.

Several comments also supported an approach calling for the establishment of alternative effluent limits through best engineering judgment determinations on a case-by-case basis rather than through use of a national formula. This would allow numerous criteria to be factored into the judgment and be most sensitive to the situation of an individual Industrial User. A commenter suggested that it also would most nearly parallel the method of control for direct dischargers. EPA believes this approach is unacceptable. It would require an extensive commitment of resources that neither EPA, States or local POTWs have available for the task. Equally important is that such a case-specific setting of effluent limitations is contrary to the Clean Water Act's requirements of a national categorical Pretreatment Standard approach.

Effect of Today's Regulation on Integrated Facilities. In a March 26, 1980 Federal Register notice, EPA suspended the general pretreatment regulations base-line monitoring and reporting requirements (§ 403.12(b)) as they apply to integrated facilities until promulgation of § 403.6(e). The effective date of today's amendments will trigger the responsibilities of these integrated facilities pursuant to § 403.12(b).

§ 403.7 Removal Allowances.

A substantial number of comments were devoted to the removal allowance provisions set forth in this section. In light of the apparent interest, and occasional misunderstanding associated with these provisions, a quick restatement of the Agency's removal allowance policy would appear to be warranted. Section 307(b)(1) of the Clean Water Act sets forth the original authority for removal allowances. This provision provides that EPA-established categorical Pretreatment Standards may be relaxed to reflect the POTW's removal of the regulated pollutants. An objective of this provision, as set forth in the statute, is to ensure that the removal achieved by the indirect discharger in concert with the removal achieved by the POTW equals the removal required of a direct discharger in the same industrial category. In order to meet this objective, it is obvious that the POTW

should be credited only with that removal which it actually achieves. Thus, EPA has imposed, through the provisions of § 403.7, several requirements which ensure that industry Standards are relaxed only to the extent that the POTW actually removes the pollutants in question.

The first such requirement prohibits removal allowances for indicator or surrogate pollutants unless the categorical Standard employing the indicator or surrogate pollutant specifies that a removal allowance may be authorized for these pollutants. In addition, the provisions of § 403.7(b) provide that a removal allowance must reflect those periods where industrial pollutant-bearing wastes Overflow the POTW and there is, consequently no actual removal of these pollutants by the POTW. Finally, the provisions of proposed § 403.7(c) (now § 403.7(d)) require that a demonstration of actual removal be based on representative sampling at the POTW.

Although some commenters have indicated that the foregoing requirements place unduly burdensome restrictions on the POTW wishing to request a removal allowance, the Agency believes that it has properly interpreted the statute to provide that the POTW will be credited only with that level of removal which is actually and consistently achieved. Support for this interpretation is found in the conference report accompanying the Clean Water Act and in the House debate on the Conference Report where it is stated that removal allowances must "reflect the degree of reduction of . . . pollutant(s) achieved by the treatment works." (Conference Report, 95-830, p. 87; House Debate, December 15, 1977, reprinted in Legis. Hist., vol. 3, at 343). In addition, the Senate debate on the Conference Report specified that in order to grant a removal allowance "there must be a demonstration that the pollutant is degraded or treated; credits will not be given for dilution." (Senate Debate, December 15, 1977, reprinted in Legis. Hist., vol. 3, at 461).

§ 403.7 Introductory paragraph. Removal Allowance and Indicator or Surrogate Pollutants.

EPA received numerous comments on the proposed provision which would eliminate removal allowances for indicator or surrogate pollutants. The comments were divided roughly into two areas. First, many commenters voiced general objections to the Agency policy of regulating toxic pollutants indirectly through indicator or surrogate parameters. Second, commenters objected to the provision, found in the introductory language to § 403.7, prohibiting the approval of removal allowances for indicator or surrogate pollutants.

Before undertaking a discussion of the latter point dealing with the proposed amendment to § 403.7, it is important to note that the suggested language change in no way can or should be interpreted as a definitive Agency policy statement favoring the use of indicator or surrogate pollutants in setting Pretreatment Standards. The decision on whether or not to use indicator or surrogate pollutants in regulating underlying toxic parameters will be made on a case-by-case basis as individual categorical Standards are developed for each industrial category. The proper forum for resolving any divergence of opinion on the propriety of using indicators or surrogates is the public participation proceedings attendant to the development of those Standards and not the general pretreatment regulations placed in final form today. Therefore, this preamble will not address the numerous comments which raised substantive questions about EPA's authority to employ indicator or surrogate pollutants in regulating toxics.

The terms "surrogate" and "indicator" are sometimes used interchangeably. However, in their traditional use these terms have distinctly different meanings. While a strict statistical relationship exists between the surrogate pollutant and the underlying toxic pollutants, a statistical relationship does not exist between an indicator pollutant and the underlying toxic parameters. Thus, when a given level of the surrogate pollutant is removed, one can quantify the amount of removal obtained for the underlying toxic pollutant. On the other hand, while removal of a given level of the indicator pollutant should also result in removal of the underlying toxics, it is impossible to strictly identify how much. However, the usefulness of both indicator and surrogate pollutants is limited to the individual technology for which they are prescribed. The correlation between indicator and surrogate pollutants and the underlying toxics can be made because one can predict with some confidence that when a particular technology is installed and results in the discharge of a prescribed amount of an indicator or surrogate pollutant, the appropriate level of removal is also being achieved for the underlying toxic pollutants in that wastestream. This correlation holds true only where the underlying assumption regarding the generic type of technology employed remains unaltered.

The indicator or surrogate correlation that can be drawn for a particular industrial subcategory presumes the use of a class of treatment technologies which may be different from the treatment employed by the POTW. Where these technologies are different, one cannot equate the POTW's ability to remove the indicator or surrogate pollutants with its ability to remove a corresponding amount of the underlying toxic pollutants. Because a determination on whether the POTW's removal of an indicator pollutant (and the consequent granting of a removal allowance for this indicator or surrogate to the User) will result in an acceptable amount of removal for the underlying pollutants is so dependent on the technologies employed by the class of Users in question, the Agency has determined that decisions on whether a removal allowance will be allowed for an indicator or surrogate pollutant will be made in the context of each categorical Pretreatment Standard. Each Standard which limits an indicator or surrogate parameter will specify whether or not a removal allowance, developed pursuant to § 403.7, will be available for that indicator or surrogate. Section 403.7 of today's regulations has been modified to reflect this change.

§ 403.7(a) Definitions.

§ 403.7(a)(1) "Removal."

This section has been rearranged to provide a generic definition of "Removal" distinct from the definition of "Consistent Removal." The definition of "Removal" makes it clear that Removal means the alteration of the nature of a pollutant after it is introduced into the sewer and before it is discharged by the POTW or a reduction in the amount of a pollutant as defermined by comparing the amount of that pollutant in the influent to and effluent from the POTW. The dilution of a pollutant in the POTW system or at the treatment plant does not constitute "Removal".

§ 403.7(a)(2) "Consistent Removal"

The June 26, 1978 regulations defined "Consistent Removal" as that level of removal observed in 95% of the influent/effluent samples taken at the POTW. Under this scheme, if the POTW were to conduct 12 influent/effluent samplings at the POTW (as is now required by section 403.7(d)(2)(iii)), the POTW's Consistent Removal level would be the lowest of the 12 Removals obtained. This result is statistically unsound in that it identifies as the "Consistent Removal" level, a level of Removal at the extreme end of the data distribution.

The data at the extremes of this 12 point distribution have the greatest chance of being in error. Thus, if the lowest level of Removal identified were unrepresentatively low, the POTW would be held to an unreasonably small level of Removal. This, in turn, would result in greater instances of redundant treatment as the Industrial Users would be required to meet effluent limits based on the low Removal level when the POTW frequently achieved greater levels of Removal.

In order to avoid the aforementioned statistical flaws and attendant potential for redundant treatment, the October amendments proposed to revise this Consistent Removal calculation.

Proposed § 403.7(a)(1) (now paragraph (a)(2)) defines "Consistent Removal" as that level of Removal demonstrated by averaging the lowest 50% of the Removals measured by 12 or more samples. Several commenters objected to this change and requested a return to the original calculation. These commenters premised their objections on two points: (1) the new calculation will result in higher Consistent Removal levels and therefore in less stringent Industrial User pretreatment limits, and (2) these less stringent pretreatment limits will result in unacceptable levels of pollutants passing through the POTW and into navigable waters.

In most cases the proposed calculation will indeed result in higher removal allowances and consequently, less stringent Industrial User pretreatment limits. The original computation selected the approved removal level from the extreme low end of the spectrum of removals achieved. The proposed calculation would average the lowest 50% of the removals documented. Stated another way, the original computation had the intent of ensuring that the approved removal allowance level could be achieved about 95% of the time. The modified calculation ensures that the approved level is one that the POTW will be able to meet about 75% of the time.

However, the fact that more generous removal levels would be granted under the modified computation does not lead to the conclusion that unacceptable amounts of pollutants will be discharged to navigable waters. Industrial users are subject to "daily maximum" and "long. term average" pretreatment limits. If the Industrial User is to meet the long term average, the User can only infrequently approach the daily maximum number in its daily discharge. For the joint treatment provided by the Industrial User and POTW to be less effective than that required of a direct discharger, a discharge by the User at the daily

maximum level would have to coincide with abnormally lower removal at the POTW. The statistical complexities of the situation do not permit a numerical estimate of the number of times this coincidence might occur, but EPA expects it to be small. One comment received by EPA on this subject stated that a computer simulation of the problem showed that violations of the daily maximum would occur less than 2% of the time. This simulation made certain assumptions concerning the statistical distributions which EPA is unable to verify, and EPA did not rely on this result in reaching a decision on the final method of calculation of Consistent Removal.

The Agency believes for the foregoing reasons that the modified Consistent Removal calculation promulgated today will ensure a level of pollution control equivalent to that required of a direct discharger with identical BAT standards. This computation is admittedly a compromise. It seeks, on the one hand, to avoid placing more extensive sampling requirements on the POTW. More extensive sampling would be required to avoid the skewed statistical results which arise from employing the "95%" removal computation with a limited number of data points (12 or less). On the other hand, this revised calculation seeks to ensure that a reasonably consistent level of removal is maintained. The Agency believes that the final computation found in § 403.7(a)(2) addresses both of these concerns.

Pollutants not Detectable in Influent to POTW. If a pollutant, known to be contributed by Users discharging to a POTW sewer system, does not appear in the influent analysis performed at the POTW there are three possible explanations. First, the pollutant is one that settles out in the sewer pipes during the normal course of operations, and is only flushed through the POTW system during storm events with the associated high flows. Second, the pollutant may actually be degraded in the sewer lines. Third, and most likely, the pollutant is there at the POTW influent, but is masked from our analytical detection capabilities by the great dilution from all other inflowing wastes.

The Agency has three options for dealing with removal allowances where a pollutant does not appear at the influent to the POTW: (1) it can elect not to grant removal allowances at all; (2) it can assume that the pollutant is fully treated and grant a 100% removal allowance; or (3) it can grant removal allowances based on an alternative demonstration of Removal (i.e., one not

based on a simple analysis of influent vs. effluent concentration).

The Agency recognizes the inequities which would flow from option one and thus has rejected this solution. However, we do not believe that the opposite extreme, embodied in option two, is any more reasonable. Where pollutants settle in the sewer lines only to be flushed out during storm events, often by-passing any treatment by the POTW, it is not reasonable to give the POTW credit for 100% treatment. Similarly, where such pollutants are present at the influent in undetectable concentrations because of the high dilution factor, there is no justification for assuming 100% treatment. This is especially true in light of the fact that treatment efficiency generally decreases as the concentration of influent pollutants decreases. For these reasons the Agency disagrees with the two commenters who asserted that pretreatment requirements should be waived for all pollutants not detected in the influent to the POTW.

The Agency endorses option three which we find to be the most reasonable approach. Section 403.7(a)(2) provides that where the POTW, for whatever reason, cannot detect regulated pollutants in its influent it may nevertheless demonstrate to EPA or the regulating State that such pollutants are indeed Removed.

§ 403.7(a)(3) "Overflow."

The term "Overflow" has been substituted for the term "Bypass" throughout the final regulation. The term Bypass is employed in the Consolidated Permit regulations and, in the context of those regulations, has a meaning which is quite distinct from the intended use of the word in the pretreatment regulations. To avoid confusion, the general pretreatment regulations now employ the term Overflow instead of Bypass. New paragraph (a)(3) of § 403.7 defines an Overflow as any diversion of flow from the POTW's pipes, sewers or other conveyances which occurs before the flow reaches the headworks of the POTW, i.e., that portion of the POTW designed to provide treatment. The diversion may either be intentional, e.g., through manual diversion of flow, or unintentional, e.g., through diversion at combined sewer overflow points due to precipitation events which exceed the hydraulic capacity of the POTW.

Diversion of flow from the POTW
Treatment Plant itself, e.g., diversion of
flow after primary treatment by before
secondary, will not consitute
"Overflow." It should be noted,
however, that frequent diversion of flow
from the POTW Treatment Plant,
because the plant's hydraulic capacity is

underdesigned or for other reasons. must be reflected in the determination of average Removal made in accordance with § 403.7(d)(2). Thus, in order to obtain a "representative" demonstration of the POTW's Removal as required by § 403.7(d)(2)(i) and (ii), POTW's which frequently provided only primary treatment because of diversions from the Treatment Plant would have to reflect this fact by including in the samples used to establish Removal an appropriate number of samples taken during wet weather flows. Further guidance on the compilation of 'representative" sampling data will be provided through the removal allowance guidance document to be distributed shortly.

§ 403.7(b)(2) Conditional Removal Allowance Approval.

The overwhelming majority of commenters on this section favored EPA's proposal to allow conditional removal allowances prior to POTW program approval. However, three commenters raised questions about EPA's authority to require POTW program approval as a precondition to removal allowance approval. The major argument raised by all three commenters was that EPA has no legislative basis for tying pretreatment programs to removal allowances.

The Agency disagrees with these comments, and believes that the statute and the legislative history of the Clean Water Act when read together provide the Agency with authority to condition removal allowances on the eventual development of local pretreatment program. The 1977 amendments to the FWPCA introduced two major new provisions dealing with pretreatment. Section 402 (b)(8) was amended to provide that POTWs receiving waste from industries subject to categorical Pretreatment Standards will be required to develop a local program to ensure that these industries comply with applicable Standards. Section 307(b)(1) was amended to provide that a POTW can relax its industries' categorical Pretreatment Standards to reflect the degree to which the POTW removes any or all of the regulated pollutants. When these two provisions dealing with pretreatment are read in light of the legislative history of the Clean Water Act, it is apparent that Congress intended that removal allowances be integrally tied to the presence of a local pretreatment program.

The Senate debate on the Conference Report on the Clean Water Act amendments addressed the connection between removal allowances, or "local credits" and local programs in the following manner:

Where a local compliance program is approved, EPA and the permitting States may approve case-by-case modifications of the national pretreatment standards-or local credits-for documented pollutant removals attained by a publicly owned treatment works. To receive a local credit there must be a demonstration that the pollutant is degraded or treated; credits will not be given for dilution. . . . Tying local credits to local compliance programs not only provides an incentive for local participation, but more importantly, it provides assurance that the removal levels which justified the local credits will be maintained by a publicly owned treatment works committed to operating a sound pretreatment program. (Legis. Hist., Vol. 3, p. 461-462)

The House debate on the conference Report reflects a similar intention to connect the provisions of 402(b)(8) and 307(b). In that debate, the following statement was made:

Under the amendment to section 307(b) the Administrator would establish national pretreatment standards for toxic pollutants based on the best available technology economically achievable, cr any more stringent effluent standards under section 307(a). Then in applying these pretreatment standards through its pretreatment programs, the owner or operator of a municipal treatment works could modify the requirements applicable to individual classes of sources introducing that pollutant into the treatment works to reflect the degree of reduction of that pollutant achieved by the treatment works. (Emphasis added) (Legis. Hist., Vol. 3, at 342-343.)

The language reflected in the House debate was drawn directly from the Conference Report. (Legis. Hist., Vol. 3, at 271).

Thus, it is apparent to the Agency that the Congress intended the provisions of sections 307(b) and 402(b)(8) to be read together to require that a local program be developed as a condition to granting removal allowances. In addition, in promulgating regulations which condition the approval of removal allowances on the development of a program, the Agency is exercising its broad authority to establish any regulatory provision reasonably related to the purpose of the enabling legislation. (Mourning v. Family Publications Service, 411 U.S. 356, 369 (1973), National Petroleum Refiners Association v. FTC, 482 F. 2d. 672, 678-79 (D.C. Cir. 1973), cert. denied, 415 U.S. 951 (1974).)

Provisional Removal Allowances.
Section 403.7(d)(2)(vii) (see preamble discussion of that section) provides that a POTW requesting provisional removal allowance authorization for pollutants not yet being discharged must comply

with the requirements of § 403.7(b)(1)-(4). EPA agrees with the commenter who noted that it is inappropriate to require compliance with proposed § 403.7(b)(2)(iii) as a precondition to receiving a provisional allowance. Proposed paragraph (b)(2)(iii) requires Industrial Users currently discharging into the POTW to enter into a compliance schedule which obligates the User to install pretreatment technology within a specified time. Industries subject to the provisional allowance section (403.7(d)(2)(vii)) are required to comply with applicable new or existing source Pretreatment Standards before the commencement of discharge. Thus, it is unnecessary and inappropriate for these Industrial Users to enter into a compliance schedule which would allow for the installation of treatment technology beyond the point in time that discharge commences. The provisions of paragraph (b)(2) have accordingly been amended to provide that industries need not enter into the required compliance schedule when the POTW is requesting a provisional removal allowance for pollutants not yet being discharged. Language to this effect in now found in § 403.7(b)(2)(i). Paragraph (b)(2)(iii) as proposed has been deleted altogether since the requirement that Industrial Users enter into a compliance schedule is already encompassed by the provisions of paragraph (b)(2)(i) requiring that Users submit the compliance schedule required by § 403.12(b)(7).

§ 403.7(b)(3) Removal Allowances for POTWs That Overflow.

This provision has been modified to allow POTWs with combined sewers or systems which at least once annually Overflow (as defined in § 403.7(a)(3)) untreated wastewater to receiving waters to obtain a removal allowance if either one of two conditions is met. First POTWs with Overflows may receive removal allowance authorization to revise discharge limits for Industrial Users that demonstrate that they can contain or cease discharges to the POTW during circumstances in which an Overflow event reasonably can be expected to occur. Alternatively POTWs which Overflow may receive removal allowance authorization if they calculate consistent removal according to an equation which factors in hours of Overflow and, after July 1, 1983, are making an effort to implement an Overflow-control program in accordance with requirements of "PRM 75-34." (See Appendix A.)

In light of some of the comments received on this provision, it appears desirable to discuss the Agency's

rationale for conditioning removal allowances on the institution of some Overflow controls. Section 307(b)(1) of the Clean Water Act states that a POTW may obtain a removal allowance if it "removes all or any part of . . . [a] toxic pollutant and the discharge from such works does not violate that effluent limitation or standard which would be applicable to such toxic pollutant if it were discharged by such source other than through a publicly owned treatment works...." The obvious intent of this, provision, as indicated by the plain words of the statute and by the legislative history of the Clean Water Act, is to avoid redundant treatment while at the same time ensuring that the treatment provided by the POTW and indirect discharger working together is equivalent to the treatment which would be required of a direct discharger. Thus, the above-cited language of the statute establishes a clearly conditioned authority. The POTW may grant a removal allowance, but this allowance may be granted only if, after treatment by the POTW and indirect discharger, the reduction in pollutants discharged to the receiving water is equivalent to the reduction which would be achieved by a direct discharger in the same industrial category and subject to BAT standards. In order to adequately fix the amount of pollution control for which the Industrial User is responsible, the POTW must establish a fixed and consistent level of removal. In order to arrive at an average consistent removal level, the POTW must factor in both those periods of high removal and those periods of low or zero removal. Thus, in determining consistent removal, the POTW must factor in those periods when no removal is obtained because untreated waste is Overflowing the POTW. The regulation provides that Overflows may be factored into the calculation of consistent removal either by using the equation of § 403.7(b)(3)(ii) or by demonstrating that regulated industrial wastes will not Overflow in unacceptable amounts during storm events (§ 403.7(b)(3)(i)).

One commenter indicated that the Agency did not go far enough in factoring periods of Overflow into the computation of consistent removal. That commenter suggested that where the discharge from an Industrial User completely Overflows the POTW during storm events no removal allowance should be allowed. In addition, that commenter suggested that, where only part of the industry's discharge Overflows the POTW during storm events, the removal be calculated by taking a weighted average of the

removal of the various portions of the industrial discharge. The Agency believes that this approach would be unduly burdensome for POTWs to implement because few POTWs are capable of distinguishing that portion of each Industrial User's waste which Overflows. Fewer POTWs would be able to grant removal allowances and, consequently, increased numbers of Industrial Users would be unable to take advantage of pollutant abatement achieved by the POTW. This result is clearly contrary to the Congressional intent that redundant treatment be avoided to the extent possible. The Agency has concluded that the position set forth in amended § 403.7(b)(3) reflects a justifiable compromise.

Other commenters felt that the provisions of proposed § 403.7(b)(3) went too far in imposing requirements on POTWs which have Overflows. In particular, comment was directed at the provision of § 403.7(b)(3)(i) which provides that, as an alternative to using the calculation of subparagraph (3)(ii), Industrial Users of a POTW may contain their discharge during periods of peak flow. Specifically, one commenter indicated that the provisions of this subparagraph were practically unworkable for the industries in its system as containment would require considerable space, which many existing facilities did not have, and since containment potentially would require Industrial Users to shut down their operations during what could be an extended period of time. EPA recognizes the difficulties which may be inherent with this option, and thus has not mandated containment during times of Overflow. The option simply is available to those industries and municipalities for which it is a practical alternative. It is anticipated that most municipalities and industries will make use of the alternative equation in § 403.7(b)(3)(ii).

Another commenter felt that the provision of § 403.7(b)(3)(i) requiring industries to cease all discharges during times of Overflow was unreasonable since the POTW may provide some treatment of influent wastes even during Overflow events. EPA agrees with this commenter and therefore has amended the section to provide that Industrial Users must reduce discharges or increase pretreatment during Overflow events in an amount equivalent to the removal not being provided by the POTW. The Agency also agrees with this commenter's position that Industrial Users need only demonstrate containment when Overflows occur from the POTW treatment plant or sewer to which the Industrial User is

connected. The regulations have been so clarified.

Two commenters asserted that it would be difficult to comply with the Overflow calculation set forth in § 403.7(b)(3)(ii)(A) because the unique features of their POTW systems made actual monitoring of Overflow events administratively and technically infeasible. These commenters appear to be proceeding under the misunderstanding that the provisions of subparagraph (ii)(A) require actual monitoring at the Overflow points. While, ideally, actual POTW removal should be documented to meet the requirements of Section 307 of the Act, we appreciate that this may be impossible in some situations. Therefore it is appropriate to read the language of § 403.7(b)(3)(ii)(A) to allow for a verifiable engineering estimate of the annual hours of Overflow where actual monitoring of Overflow points is infeasible. The demonstration accompanying this estimate should reflect, at a minimum, actual historical rainfall information, the area served by combined sewers, local soil and topographic conditions, the age and maintenance of the combined sewers, ground water levels and any inflow/ infiltration problems. Further information on how these factors should be incorporated into an estimate of annual Overflow will be available from an EPA guidance document on computing removal allowances to be distributed in the near future.

Another commenter suggested that Overflows should not inhibit approval of a removal allowance as long as the pollutants Overflowed do not constitute a public health problem. This comment highlights a common misapprehension of the pretreatment program's objectives. The pretreatment program, like its sister direct discharge NPDES program is charged with controlling industrial pollutants to the extent that current technology allows. The POTW and industry working together must achieve that level of pollution control obtained by direct dischargers employing the "best available technology". This technology-based mandate focuses the Agency's attention on the current state of our technical expertise rather than on the varying water quality needs of diverse stream segments. As a result, the imposition of technology controls, may, for some water bodies, achieve a higher level of water quality than would be required by applicable water quality criteria or standards.

The rationale for this approach is well-documented throughout the legislative history of the FWPCA and amendments thereto and the Agency does not have the authority or the intention to depart from the technology-based control approach in the pretreatment program. Thus, returning to the commenter's suggestion, the POTW must actually remove (along with removal provided by the industrial User) that level of pollutants dictated by available technology and not that level suggested by the condition of local water quality.

Two additional changes have been made to § 403.7(b)(3). First, the equation of § 403.7(b)(3)(ii) has changed from the proposal. The original formula was mathematically incorrect in that it corrected the revised categorical Standard, rather than the consistent removal. The error can best be illustrated by an example. Assume a POTW Overflows one-half of the time. Further assume an original categorical limit, X, of 4 mg/1 and a removal, r, of .2. The old formula calculates a revised categorical limit of:

$$\frac{4}{1-2}$$
 (1/2) = 5(1/2) = 2.5 mg/1,

This revised limit is lower than the original categorical limit. The new formula calculates a corrected removal of .10 and therefore a revised limit of 4.4 mg/1 (applying the equation of \$403.7(d)(4)).

In addition, a non-substantive change was made to the introductory paragraph of § 403.7(b)(3). The first sentence, requiring that the POTW demonstrate "Consistent Removal" before obtaining a removal credit, has been moved to a more appropriate spot in the introductory language to paragraph (b). Similarily, the language formerly found in paragraph (b)(3)(ii)(B), exempting POTWs from the requirement to factor Overflow into removal allowances where no Overflow occurs between the industry and the POTW, has been moved to a more appropriate place in paragraph (b)(3).

§403.7(b)(4). Compliance with sludge disposal requirements.

General Discussion

Before entering into a detailed discussion of the comments received on this section, it would appear to be desirable to explain briefly the connection between removal allowances and compliance with municipal sludge disposal regulations.

Several commenters apparently misread the provisions of § 403.7(b)(4) to demand compliance with requirements currently published under section 405 of the Clean Water Act (See 44 FR 53438) regardless of the manner in which the POTW is disposing of its sludge.

The manner of sludge disposal is a local decision. EPA regulations and guidelines do not prescribe methods of disposal. Instead, the requirements developed pursuant to the authority of section 405 of the CWA and related statutory provisions specify applicable constraints on the disposition of the sludge depending upon the disposal method selected. Thus, the POTW first determines the manner in which it will dispose of its sludge, then it identifies and complies with the appropriate Federal regulations or guidelines pertaining to that method of disposal. Section 403.7 provides that the POTW will not be able to receive removal allowance approval (§ 403.7(b)(4)) or maintain an approved level of removal (§ 403.7(f)(2)) if it fails to comply with Federal, State or local requirements applicable to its selected method of sludge disposal.

For example, if a POTW has elected to dispose of its sludge on agricultural land, it must comply with the regulations for land application, 40 CFR Part 257, promulgated on September 13, 1979 at 44 FR 53438. As long as the municipal sludge is disposed of in compliance with these regulations, the POTW may continue to grant a removal allowance to its Industrial Users relaxing their categorical Pretreatment Standards. Application of the sludge to the land in concentrations which are found to violate the limits prescribed in the September 13th regulation would constitute grounds for potential revocation or modification of the removal allowance. Similarly, if a POTW's sludge is contaminated to the degree that it is classified as a hazardous waste under the provisions of Subtitle C of RCRA, the POTW must comply with all applicable requirements of the Subtitle C regulations, including the requirements for land disposal under 40 CFR Part 264, in order to continue to grant removal allowances.

Where the POTW is employing more than one sludge-disposal method, and a parameter for which a removal allowance has been requested fails to meet federal (or State or local) requirements pertaining to one of the methods of disposal, but not the other, then the removal allowance may not be granted until the disposal of sludge containing that parameter is brought into compliance with federal (or State or

local) requirements pertaining to all methods of disposal employed by the POTW. Similarly, if the removal allowance for this parameter has already been authorized at the time the violation is found, the allowance for that pollutant will be modified or withdrawn until the POTW complies with federal (or State or local) requirements for that

pollutant for all methods of disposal employed by the POTW.

The chart below sets forth the major federal regulations which should be reviewed in order to determine whether the POTW's selected sludge disposal option is in compliance with the appropriate regulatory provisions.

Major Federal Regulations Relating to Sewage Sludge Disposal

Studge disposal		Regulation	Date of promulgation	Authority	
1. Landspreading:					
a. Food-chain application	40 CFR	Part 257	9/79	RCRA/CWA	
b. Non-food-chain application	40 CFR	Part 257	9/79	RCRA/CWA	
c. Distribution and marketing	40 CFR	Part 258	1 12/81	CWA and others.	
Land disposal:				•	
a. Solid wastes (nonhazardous)	40 CFR	Part 257	9/79	RCRA/CWA	
b. Hazardous wastes	40 CFR	Parts 260 et seg	5/80	RCRA.	
c. PCB's; criteria modification		Part 761	5/79	TSCA.	
I. Incineration:					
a. New stationary sources of air emissions	40 CFR	Part 60	10/75	CAA.	
b. Hazardous pollutants			10/75	CAA.	
c. Hazardous wastes	40 CFR	Parts 260 et seg	5/8C	RCRA.	
d. PCB's; criteria modification	40 CFR	Part 761	5/79	TSCA.	

¹ Estimated.

Key

RCRA=Resource Conservation and Recovery Act. CAA=Clean Air Act.

CWA=Clean Water Act. TSCA=Toxic Substances Control Act.

Reference to Other Statutes. Several commenters challenged the Agency's authority to condition removal allowances on the POTW's compliance with statutory provisions outside of the Clean Water Act. These commenters argued that section 307(b) of the Clean Water Act requires compliance only with those standards and guidelines promulgated under section 405 of the Clean Water Act. The Agency believes that it is acting within the authority granted to it by sections 307(b) and 405 of the Clean Water Act in conditioning removal allowances on compliance with applicable requirements established under the Solid Waste Disposal Act (including Title II of this Act, more commonly referred to as the Resource Conservation and Recovery Act (RCRA)), the Clean Air Act, the Toxic Substances Control Act (TSCA), and State regulations developed under Subtitle D of RCRA.

Section 405 of the Clean Water Act grants the Agency authority to promulgate "regulations providing guidelines for the disposal of sludge and the utilization of sludge for various purposes." The disposal of sludge may of course involve various media. Incineration of sludge will result in an impact on air quality; land disposal of sludge may result in effects on ground water and local flora. Therefore, in fulfilling its mandate to develop

regulations under section 405 which "identify concentrations of pollutants which interfere with each . . . [sludge] use or disposal" the Agency must of necessity make reference to environmental protection standards set forth in regulations developed under various statutes including the Clean Water Act, Clean Air Act, TSCA, and RCRA. In order to avoid duplication of effort and to ensure consistency between the regulatory provisions promulgated under section 405 and those related provisions found under these various statutes, the section 405 regulations will, to a large degree, simply reference the existing requirements applicable to sludge disposal found under the aforementioned statutes. The Agency's plan for developing this consolidated sludge disposal regulation is discussed in the pre-proposal draft regulation for Distribution and Marketing of Sewage Sludge Products dated May 6, 1980.

Thus, if the Agency, in the general pretreatment regulation, were simply to reference the section 405 regulations in defining appropriate circumstances for granting removal allowances, it would achieve the same result as is realized by referencing the statutory provisions directly. Therefore, the Agency is not over-stepping its statutory authority in making direct reference to the

aforementioned statutes. By referencing these statutes directly, § 403.7(b)(4) ensures that the regulated community has notice that continued authorization to grant removal allowances may depend upon compliance with various statutorily-derived requirements applicable to the selected manner of sludge disposal.

In addition, in referencing these related statutory provisions the Agency is acting well within its authority to implement those regulatory provisions which are reasonably related to carrying out the intent established by Congress. Relevant sections of the Clean Water Act and the referenced statutes were discussed above in the context of the definition of Interference. (See § 403.3(i).) The Legislative History also supports references to other statutes. Senator Muskie stated that "[s]uch credit approvals will be conditioned initially upon municipal compliance with Resource Conservation and Recovery Act requirements under subtitles C and D, and in 1983 upon treatment works being capable of making beneficial use of its municipal sludge as established under subsection 405—unless such use is shown to be infeasible." Senate Debate on Conference Report, reprinted in Legis. Hist., Vol. 3, at 461-62 (1978). This remark indicates that Senator Muskie contemplated consideration of at least one other statute in the creation of removal allowances or "credits." It is logical that the Administrator consider other relevant standards in establishing the criteria for removal allowances.

Finally, removal allowances are not required by law but are an option of the POTW (section 307(b) of the Act). It is perfectly reasonable for the Administrator to impose conditions on the granting of removal allowances which effectively carry out the intent of Congress, i.e., that removal allowances not be granted where they might result in Interference with the POTW's selected sludge disposal alternatives.

The October 1979 proposal amended § 403.7(b)(4) by deleting the requirement that the POTW comply with "guidelines" or "criteria" adopted under the referenced statutes. This deletion avoided legal problems which might arise from requiring POTWs to comply with Agency policies not subject to rulemaking procedures, including notice and public comment. However, one commenter noted that the Agency went too far in limiting the compliance requirement only to "regulations"

promulgated under these statutes. That commenter accurately noted that the provisions of these statutes often have vitality apart from regulations promulgated thereunder. For example, section 405(a) of the Clean Water Act contains a prohibition that does not require implementing regulations to be effective. Similarly, the requirements of section 405 as well as Subtitle C of RCRA may be established through permits whether or not regulations exist. Therefore, limiting compliance to regulations established under a statute would unduly limit the intended scope of the statutes' authority. In response to this comment, EPA has amended the reference to statutory provisions found in § 403.7(b)(4) (and § 403.3(i)) to require sludge use and disposal in accordance with the statutes themselves, or regulations or permits issued thereunder, if a removal allowance is to be authorized.

§ 403.7(c) Application for Removal Allowances.

The final amendments to this section -adopt the proposed changes published in October, 1979. Section 403.7(c) provides that application for removal allowance authorization may be requested once a year with respect to certain pollutants instead of only at the time of program approval or subsequent permit reissuance as provided for in the existing regulation. All such requests for removal allowance authorization submitted prior to program approval are considered to be "conditional" allowances, as described in § 403.7(b), if the Approval Authority does not review and make a decision on them. The Approval Authority may review and make a determination on the POTW's authority to revise discharge limits at any time after the submission of an application for removal allowance approval up until the time of pretreatment program approval. At the time of pretreatment program approval the Approval Authority is required to review and make a determination on any pending requests for removal allowance approval.

One commenter sought to clarify whether removal allowance requests would be entertained after POTW pretreatment program approval or the reissuance of the POTW's permit. Additional requests for removal allowances may be submitted, on a yearly basis, after POTW program approval and permit reissuance. The Approval Authority may elect to act on these requests upon receipt, or may defer consideration until the next permit reissuance date.

Several commenters objected to the provision of § 403.7(c) which requires the POTW to apply for a removal allowance for a particular pollutant within 18 months of the effective date of a categorical Pretreatment Standard regulating that pollutant. These commenters felt that the 18-month period is too restrictive and suggested that requests for removal allowances should be entertained at any time. The Agency continues to believe that an 18month period provides sufficient time for the POTW to determine its ability to remove a regulated pollutant. Section 403.7(d) of this regulation requires, at a maximum, 12 months of operating data in order to establish a removal level. In addition, comments from POTWs have indicated that they expect to conduct sampling and analysis to determine their removal capability for all pollutants at one time. Once the removal capability has been established for all pollutants for which regulations are anticipated, when the final Pretreatment Standard is promulgated, the removal data will already be on hand. For the foregoing reasons, the final regulations continue to employ an 18-month time limit. Allowing POTWs to request removal allowances at any time would overburden the State and EPA reviewing authorities and defeat the Act's and regulation's goal of defining a fixed and constant level of

§ 403.7(d)(2)(iii) Sampling Schedule for Determining Removal Allowances.

In an attempt to improve the readability of the regulations, paragraphs (c)(1)–(7) of § 403.7, pertaining to the contents of a Removal Allowance application, have been redesignated paragraphs (d)(1)–(7).

The October 1979 amendments to the general pretreatment regulations proposed to revise the sampling period needed to demonstrate the POTW's removal of regulated pollutants. The proposed revision provides for a minimum of twelve composite samples taken at approximately equal intervals throughout the year. This revision provides data less dependent on short term trends and, therefore, more representative of seasonal and yearly trends in influent and effluent quality. The original regulations had provided for a composite sample taken on each of three consecutive days during each season.

Several commenters suggested that the proposed modified sampling regime is still unduly restrictive. For example, one commenter indicated that a more representative indication of the average removal achieved by his city's POTW could be obtained by collecting seven

consecutive days of samples once per quarter. The Agency agrees that there should be more flexibility in the sampling requirements imposed by this section. Therefore, today's regulations amend § 403.7(d)(2)(iii) to provide that the POTW may seek approval from the Approval Authority of an alternative sampling scheme where the scheme outlined in the regulation will not provide the most representative determination of the POTW's removal ability. The Approval Authority may also approve the use of supporting historical data maintained by the POTW where such data provide a representative demonstration of annual removal performance.

Another commenter indicated that EPA's proposed procedures for collecting flow-proportional composite samples were too narrowly drawn. Specifically, that commenter suggested that section 403.7(d)(2)(iii) be amended to allow the collection of flowproportional samples through 1) continuous, rather than discrete sampling at varying rates corresponding to flow; 2) discrete sampling at a constant rate or aliquot volume but at varying frequencies depending upon flow, as well as 3) discrete sampling at a constant frequency but varying aliquot volume as proposed by EPA. EPA agrees with this commenter and has modified § 403.7(d)(2)(iii) to provide for these alternative methods of obtaining flowproportional samples.

The same commenter expressed concern that the provision of the amended regulations requiring that effluent sampling at the POTW be conducted one detention time later than the corresponding influent sample will result in erroneous and misleading estimates of the POTW's removal. The commenter also noted that, ideally, collection of influent samples should precede collection of effluent samples by a period of time equal to in-plant detention at the 24-hour average flow during the sampling period.

EPA believes that in most cases the results of 24-hour POTW composite sampling are not significantly affected by the failure to compensate for a calculated hydraulic detention time. At most treatment works, small amounts of influent constituents pass through the POTW in time periods less than the calculated hydraulic detention period. Thus, the operation of most treatment works serves to dampen out variations in POTW effluent concentrations which would otherwise appear as a result of influent concentration variations. There is Agency experience which suggests that very small differences, well within

normal sample error, arise by not compensating for hydraulic detention time for composite sampling. Hence, the fact that the prescribed methods of § 403.7(d) require a 24-hour sampling event, which encompasses one or more detention periods at most POTWs, leads the Agency to conclude that for the general case the added burden of delaying effluent sampling by one detention period is not worth the minimal benefit obtained. However, it is within the discretion of either the POTW or the Approval Authority to include detention time compensation. The Approval Authority may wish to require that influent sampling precede effluent sampling by approximately one detention period (based on an estimated average daily flow during a corresponding period in the previous year) in cases where to do otherwise would yield unrepresentative results. Circumstances where such compensation may be justified include, but are not limited to, instances of extremely long detention periods or pure plug flow operation and batch discharges by Industrial users.

§ 403.7(d)(2)(vii) (formerly paragraph (c)(2)(v)) Provisional Removal Allowances.

The proposed amendments to the **General Pretreatment Regulation** included a new paragraph, Section 403.7(c)(2)(v) (now redesignated paragraph (d)(2)(vii)), which would enable the POTW to provisionally revise categorical Standards for new pollutants discharged into its system in the same manner as it grants conditional revisions for existing discharges under § 403.7(b)(2). The new provision allows the POTW to estimate the percentage of removal the POTW would achieve for these pollutants based on treatability studies for the pollutants in question or , data indicating the level of removal obtained for those pollutants by similar municipal treatment systems.

EPA agrees with the commenter who suggested that the amended language does not clearly indicate that the provisional allowance would be contingent upon the POTW's compliance with applicable sludge disposal requirements set forth in § 403.7(b)(4).

The Agency has amended this section to make it clear that in order to receive a provisional removal allowance, a POTW must comply with the same requirements, set forth in § 403.7(b)(1)—(4), which must be met prior to obtaining the more conventional removal allowance. Thus, under the provisions of paragraph (b)(4), the provisional allowance may not be authorized if it

contributes to the POTW's inability to comply with its NPDES permit or with applicable sludge disposal requirements.

Under the provisions of paragraph (b)(1) the POTW must apply for the provisional allowance. Paragraph (b)(2) allows the POTW to receive conditional approval of its provisional allowance prior to the development of a local pretreatment program. Finally, if the POTW requesting the provisional allowance has a combined sewer system which at least once annually overflows untreated wastewater to receiving waters, then the provisional removal allowance must comply with the requirements of § 403.7(b)(3).

Section 403.7(d)(2)(vii) has also been amended, in response to comments, to provide a specific time frame in which the POTW must commence a demonstration of removal as required by § 403.7(d). The final regulation establishes that the POTW must provide the operating data required by § 403.7(d) to support the provisional credit within 18 months after commencing discharge of the pollutant for which the provisional allowance is requested.

§ 403.7(f)(5) (formerly paragraph (e)(4) Withdrawal or Modification of Removal Allowances.

The Agency received comments that the phrase "significantly contributing" is unworkably vague. While EPA believes that a reasonable person would understand the meaning of this phrase, the Agency has clarified its meaning by including in the final language of § 403.7(f)(5) a reference to the definition of this phrase found in § 403.3(i). Thus, all uses of this phrase in the regulation shall be accorded the meaning set forth in that paragraph.

Another commenter expressed concern with the provision providing for withdrawal or modification of the . removal allowance unless corrective action is taken in a reasonable time "not to exceed 60 days unless the POTW or the affected Industrial Users demonstrate that a longer time period is reasonably necessary-to undertake appropriate corrective action." This commenter was concerned that the quoted language could be used to justify allowing problems to continue for long periods of time while major construction or long-term upgrading projects were undertaken. The above-quoted language should not be read to provide for such long-term remedies. The Agency intends the quoted language to allow time for the correction of only relatively minor, short-term problems. If a POTW is not meeting its approved removal level and a long-term modification is necessary to improve the POTW's removal, the

existing allowance should be adjusted downward until the higher removals are actually attained.

§ 403.7(e)(2) (Formerly paragraph (d)(2)) POTW's Receiving Construction Grants.

A new sentence added to the end of this paragraph highlights the interaction between the pretreatment regulations and the construction grants regulations (49 CFR Part 35) by pointing out that POTWs receiving grant funds for sludge disposal or treatment technology should consider the impacts which the granting of removal credits will have on the grant eligibility of sludge disposal or treatment systems in accordance with 35.917-1(d)(6) and Appendix A of Part 35 (40 CFR Part 35). In addition, the Construction Grant regulations are currently being amended to establish procedures for assessing the impact of granting removal credits on sludge disposal alternatives. These amendments are expected to clarify that sludge disposal or treatment systems are subject to the same cost-effective analysis contained in Appendix A of 40 CFR Part 35 as are all other projects funded under Title II of the CWA. Additionally, the amendments are expected to clarify that the level of federal participation will be limited to the most cost-effective, environmentally sound treatment technologies. In light of these anticipated amendments, POTWs expecting to seek Title II funding for sludge disposal systems should be prepared to consider the impact of granting removal credits on potential federal participation.

§ 403.7(g) (formerly paragraph (f)) Removal Allowances for POTWs not Required to Develop a Pretreatment Program.

The proposed § 403.7(f) (now designated paragraph (g)) provided that POTWs in States electing to exercise their § 403.10(e) authority to forego requiring the developing of local pretreatment programs may nevertheless receive removal allowances. Several commenters raised questions pertaining to the implementation of this provision. Section 403.10(e) allows a State to run a centralized pretreatment program at State-level which would be responsible for carrying out those responsibilities otherwise relegated to the POTW, i.e., the responsibilities set forth in § 403.8(f). The State would, for example, receive the various reports required of industry by § 403.12 and would be responsible for , seeing that applicable categorical Pretreatment Standards were complied with. States make application for the authority to run a § 403.10(e) program in

the State Pretreatment Program submission required by § 403.10(b) or amendments thereto.

Where the State elects to run a centralized program under § 403.10[e], certain responsibilities should nevertheless remain with the POTW. Section 403.7(g) provides that, where the State develops a program under § 403.10(e), the POTW must remain responsible for the demonstration of and periodic reporting on removal according to the provisions of § 403.7 in order to receive and maintain a removal allowance. The approved removal level is incorporated into the POTWs State-or EPA-issued section 402 permit and becomes enforceable as a condition thereof

In addition, several commenters noted an apparent contradiction between the provisions of § 403.7(g) and those of § 403.8(a) requiring that a POTW program be developed as a condition to receiving removal allowance approval. As the following discussion indicates, § 403.8(a) has been amended to rectify this inconsistency. Where the State exercises its § 403.10(e) authority and assumes, at the State level, the responsibility for developing the components of a local pretreatment program, the POTW is deemed to have a program sufficient to meet the requirements of § 403.8(a).

§ 403.8 POTW Pretreatment Programs. § 403.8(a) Local Programs and Removal Credits.

Several commenters pointed out that the last sentence in § 403.8(a) requiring that a local pretreatment program be developed where removal allowances are approved appears to be inconsistent with the new provisions of § 403.7(b)(2) allowing for conditional removal allowance approval prior to the submission of a local pretreatment program and with the provisions of § 403.7(g) which authorize removal allowance approval in selected circumstances where a local program does not exist. The relevant language of § 403.8(a) promulgated on June 26, 1978 provided that "any POTW desiring to modify national Pretreatment Standards for pollutants removed by the POTW (as provided for by § 403.7) must first have an approved POTW Pretreatment Program." The word "first" was deleted in the October proposal so that this provision would be consistent with the provision of § 403.7(b)(2) allowing for conditional allowances. It is apparent from the comments received that this language change did not clearly convey this intent. Therefore, paragraph (a) has again been amended to avoid any

appearance of inconsistency with § 403.7(b)(2). Section 403.8(a) now provides that in order to receive final approval of a removal allowance, a POTW program must first have been developed and approved by or submitted to the approval authority. Where a conditional removal allowance has been requested, § 403.8(a) provides that the POTW must develop a local pretreatment program according to the requirements of § 403.7(b)(2).

We agree that the proposed provision is inconsistent with the new language of § 403.7(g). Paragraph (a) of § 403.8 has accordingly been amended to provide for an explicit exception to the rule that a POTW receiving a removal allowance must ultimately develop a pretreatment program. The amended paragraph provides for an exception in the case outlined in § 403.7(g) where the State has elected to assume responsibility for running a local program in lieu of the POTW in accordance with § 403.10(e), and the POTW is accordingly not required to develop a local program.

§ 403.8(e) Cause for Reissuance or Modification of Permits.

Two additional circumstances constituting cause to modify or reissue a POTW's NPDES permit have been added to this paragraph. Paragraphs (e) (4) and (5) now make explicit State and EPA authority to modify or reissue permits to incorporate the provisions of an approved pretreatment program or a compliance schedule for the development of such a program. These authorities were already provided for by paragraphs (c) and (d) and have been consolidated in paragraph (e) for the sake of clarity.

§ 403.8(f)(1)(iv) Confidential Information.

The comment following this paragraph has been deleted in the final regulation. The comment provided that POTWs and NPDES States are encouraged to develop procedures to protect trade secrets and confidential information. Section 403.14 of the regulation now requires that POTW's and States develop such procedures. In addition, anew paragraph, (f)(1)(vii) has been added which requires the POTW to comply with the requirements of § 403.14. In light of these changes, the comment is redundant and has been deleted accordingly.

§ 403.8(f)(1)(v)(B) POTW's Emergency Authorities.

The proposed regulations amend this section to require that the POTW provide Industrial Users with: (1) informal notice before requiring them to

halt discharges that appear to present an imminent danger to health or welfare; and (2) a more formal notice prior to halting discharges which threaten the environment or the operation of the POTW. Two of the three commenters who addressed this issue directed their concerns at the more substantive provisions of this paragraph rather than at the proposed changes with regard to notice. These commenters expressed concern that POTWs might overzealously exercise this authority if more definition were not given to the term "imminent endangerment." One of these commenters went further to suggest that this emergency response provision only be applied to demonstrated rather than potential dangers. It would appear to be useful to reiterate the rationale behind these provisions.

The Agency does not believe that it is desirable or possible to chronicle all situations which would constitute an imminent endangerment to human welfare, the POTW, or the environment. The local POTW is, in most cases, must better able to identify those circumstances which constitute an immediate danger to local inhabitants, local streams, or the operation of the treatment works. The Agency therefore believes that it should accord wide discretion to the POTW to act in those instances which it deems to constitute an imminent danger. In addition, one of the major functions of the emergency provision would be severely undercut if it were limited to situations where an actual harm had become manifest. One of the primary purposes of this provision is to give the POTW authority to intervene in dangerous circumstances before they result in harm to persons, the environment, or to the operation of the treatment works. Therefore, the final regulations promulgated today preserve the POTW emergency response authority promulgated in the June, 1978 regulations.

§ 403.8(f)(2)(vii). Newspaper Notification of Pretreatment Violations.

In the June 26, 1978 regulations, this paragraph provided that the POTW should provide for annual notice in the municipality's largest newspaper of Industrial Users that were not in compliance with Pretreatment Standards or other pretreatment Requirements during the preceding twelve months. This provision inspired concern that the language might be too broadly interpreted to cover very minor instances of noncompliance, such as the delay of one day in submitting a status report. The provision was amended accordingly to provide that only

significant violations occurring during the year need be reported. The amended paragraph then defined a significant violation as those violations which remain uncorrected forty-five days after notification of noncompliance, which are part of a pattern of noncompliance over a twelve month period, or which involve a failure to accurately report / noncompliance. Several commenters addressing this proposed change suggested a return to the original language. Another suggested that the modified language also include provision for notification of violations pertaining to toxic pollutants or violations having severe consequences.

The Agency believes that the proposed language adequately addresses its concern that the public receive notice of significant industrial violations while avoiding inequities which might arise from publishing notices of very minor excursions. Requiring the POTW to report any violation appears unduly burdensome on the POTW and unduly harsh for those Users responsible only for minor reporting violations. Therefore, in the final regulations promulgated today, the Agency has adopted the basic changes incorporated in the proposed amendments. The final regulations also reflect a change in response to the aforementioned commenter who favored incorporation of a notice requirement where toxic pollutants or discharges resulting in serious damage to health, environment or the operation of the POTW were concerned. Section 403.8(f)(2)(vii) now provides that a violation is deemed to be significant if it results in the exercise of the POTW's emergency authority under § 403.8(f)(2) (vi)(B). Thus, the POTW must give newspaper notice of those violations which elicited an "imminent endangerment" response under the above-referenced paragraph.

Another commenter indicated that the public participation provisions of 40 CFR Part 25, referenced in § 403.8(f)(2)(vii), were so varied in nature that reference to this part was unworkably vague. This commenter suggested that the Agency specify those requirements to be complied with in order to avoid regional discrepancies. EPA agrees with this comment, but feels that the proper forum for such distinctions is guidance rather than regulations. The Agency therefore will ensure that the Pretreatment Guidance package to be distributed following the promulgation of this regulation will discuss the public participation mandated by 40 CFR Part 25.

§ 403.9 Submission of POTW Program and Removal Allowance Approval Requests.

§ 403.9(a) Responsible Approval Authority.

Paragraph (a) has been amended to make it clear that requests for local program and removal allowance approval are to be submitted to a State for a final approval determination only if the State has an approved pretreatment program. In all other cases, these requests are to be approved by the appropriate EPA Regional office. This provision does not preclude an agreement between the State and EPA that the State will conduct an initial review and make an advisory determination on the approvability of a POTW program or removal allowance where the State does not have actual approval authority. The provision also is not intended to relieve the State of responsibility for making an approval determination where it has been determined (as provided for by § 403.10(a)) that the State has authority to make such a determination.

§ 403.9(c)(3) (formerly paragraph (b)(3)) Conditional Program Arppovals.

As originally promulgated this section required that removal allowances be withdrawn if funding was not acquired to implement any delayed elements of a conditionally approved local pretreatment program within the necessary time period. To conform to the change in § 403.7(f)(5), this provision has been amended to make clear that allowances may be modified rather than withdrawn. The sole commenter on this section supported the change and it is adopted as proposed.

§ 403.9(f) Pretreatment Program Submissions—Procedural Defects.

The proposed amendment to this section would have required public notice by the EPA or State in the event it was determined that a submission for pretreatment program approval or removal allowance approval did not comply with the procedural application requirements set forth in the regulation. POTW and State comments all objected to this proposal on grounds that it would impose a heavy administrative and resource burden with minimal benefits. They pointed out that any procedural defects were usually remedied most expeditiously by direct contact with POTWs during the review process prior to formal submission. A POTW also noted that publication of a "notice of noncompliance" is misleading in that it implies that the POTW failed to meet its

permit compliance schedule for the development of a program.

The one commenter supporting the change felt public notice was necessary to alert Industrial Users who could then assist the POTW in complying with the procedural requirements in resubmitting its proposal. The Agency agrees that such notice can prove useful and the final regulations, accordingly, provide that the Approval Authority shall provide notice of program deficiencies to all persons who have specifically requested such notice. The Agency is convinced by the comments that it is unnecessary to impose a mandatory public notice requirement in this situation.

§ 403.10 State Pretreatment Programs. § 403.10(a) State Pretreatment Programs—Exercise of Current Authorities.

Section 403.10(b)(1) of the proposed amendments provides that an NPDES State will be required to exercise those authorities related to the operation of a State pretreatment program which it possesses even if the State has not yet obtained approval of its pretreatment program. In most States these are authorities, such as the authority to apply and enforce requirements under section 307(b) and (c) of the Clean Water Act, which the State already attested to in its application for NPDES program approval. Since former paragraph (b)(1) has been deleted in today's final regulation (it imposed a reporting requirement which states have subsequently complied with), the language discussed above has been moved to paragraph (a). No comments were received on this amendment and it is adopted as proposed.

§ 403.10(c) EPA Pretreatment Authority.

This amendment substituted "EPA" for "Administrator" in describing the Agency's exercise of pretreatment authority prior to State implementing action. This technical change will be adopted as proposed.

Several commenters suggested that EPA replace the word "may" in the phrase ". . . EPA may exercise the authorities . . ." to recognize the mandatory nature of the Agency's obligation in this situation. EPA agrees and "shall" has been substituted in the phrase.

§ 403.10(e) State Program in Lieu of POTW Program.

The preamble to this section in the proposed amendments suggested a new policy which would prohibit granting

section 201 funds to a POTW for development of a pretreatment program where the State had elected to implement the program at the local level. This suggestion generated considerable comment in opposition to the policy and endorsing the merits of local pretreatment programs as opposed to those run by States. EPA agrees that in most cases local pretreatment programs are preferable to Stateoperated programs. However, this section makes provision for those circumstances when the State determines that its resources and capabilities are better suited to administer the program than its local POTW's. The regulation makes it clear that there is no bar to a POTW developing its own program even where a State has elected to operate a program. In response to the comments. EPA has rejected the proposed policy of not funding the development of these local programs. Therefore, POTWs in this situation will be at no economic disadvantage in establishing pretreatment programs relative to POTWs in States not operating local programs.

Several commenters suggested that a conflict existed between this provision and the language in § 403.8(a) requiring POTWs with a daily flow in excess of 5 million gallons to develop local pretreatment programs. These commenters believed a State decision to operate local programs would be limited by § 403.8(a) to those POTWs with less than 5 mgd flow. This is not the intent of the regulation. The language of this section has been clarified to indicate a State decision to operate a pretreatment program in lieu of a POTW will supersede the requirements of § 403.8(a) even for those facilities with daily flows greater than or equal to 5 mgd.

§ 403.10(f)(2)(iii) Compliance Schedules.

The amendment to this section deletes the word "expiring" prior to "POTW permits." This change clarifies that the State must develop procedures to include pretreatment compliance schedules in all permits, not just those which are expiring. In response to the sole commenter on this section, EPA has added a phrase indicating that the shortest reasonable compliance schedule may not extend the time for POTW compliance beyond the July 1, 1983 deadline.

§ 403.10(h) EPA Approval of State Programs.

The proposed amendment altered the references in this section from "Administrator" to "Regional

Administrator" to reflect the delegation of the authority to review the initial State program submission. No comments were received on this amendment and it is adopted as proposed.

§ 403.10(h)(2) Approval Procedures for State Programs.

This amendment alters the reference concerning State pretreatment program approval procedures from § 403.11 to 40 CFR Part 123.13 pursuant to the changes in the revision of the NPDES regulations in the June 7, 1979 Federal Register and the promulgation of the Consolidated Permit regulations in the May 19, 1980 Federal Register.

§ 403.11 Approval Procedures for POTW Programs and Removal Allowances.

This section has been modified to delete references to State program approval procedure. As § 403.10(h)(2) now indicates, State program approvals are now governed by the procedural requirements found in Part 123 of the Consolidated Permit regulations.

§ 403.11(b) Review and Preparation of Notice.

The proposed amendment to this paragraph required the Approval Authority to have a Submission ready for public review and comment within 5 days of its receipt. A commenter noted that this period may be unrealistically brief for the Approval Authority to conduct a preliminary review of the Submission to determine its procedural sufficiency and prepare the required public notice. The language has been changed to indicate that the 5 day period for preparing the public notice commences after the Approval Authority has made its preliminary determination that the Submission contains all the required information.

§ 403.11(b)(1)(i)(A) Notice.

The final amendment to this section provides that those persons requesting individual notice must also be included among the persons to whom copies of the request for program or removal allowance approval must be mailed. The Approval Authority may notify persons and organizations other than those listed in paragraph (b)(1)(i)(A) as the Approval Authority deems necessary. The opportunity for the exercise of discretion should address one commenter's concern that in certain circumstances notices of requests for approval of Submissions should be sent to adjoining States whose waters may be affected.

§ 403.11(b)(3) Review of Conditional Removal Allowances.

The proposed amendment added a new section requiring the Approval Authority to publish notice of its decision to defer review of a Submission which authorizes a POTW to grant conditional revised discharge limits. Commenters indicated that this requirement would impose a large additional burden upon the Approval Authority. The requirement imposes no greater burden upon the Approval Authority than if it chose to review the package rather than defer the review. One commenter argued that formal action of record by the Approval Authority was required prior to a POTW exercising its power to grant conditional revised discharge limits. This is not the intention of §§ 403.7(b)(2) and (c). Submission of the request alone authorizes the POTW to grant removal allowances. The section is adopted as proposed.

§ 403.11(c) and former paragraph (e) Approval Authority Decision.

Paragraph (e) of the proposed regulation provides that the Approval Authority shall provide notice of a decision not to approve a Submission and that this notice shall be accompanied by suggested revisions needed to bring the Submission into compliance with applicable requirements. This provision has been moved to a more appropriate location in paragraph (c) which discusses the Approval Authority's decision to approve or deny a Submission.

§ 403.12(b) Industrial Reporting Requirements—General.

The first part of § 403.12(b) has been amended today to incorporate the changes proposed on October 1979 which make clear EPA's intent to require the 180 day baseline reports only of those Industrial Users subject to specific categorical Standards. Industrial Users subject only to prohibited discharge limits need not submit baseline reports unless otherwise required by the Control Authority.

A commenter noted, and the regulations today reflect, that since the effective date of 40 CFR 403 is August 25, 1978, the reporting dates triggered by the effective date of Part 403 can be deleted.

One commenter suggested that the baseline report required by § 403.12(b) should be due 180 days after the final decision concerning the applicable subcategory determination made pursuant to § 403.6 instead of 180 days

after the effective date of a categorical Pretreatment Standard. EPA agrees that a good-faith category determination submission warrants the delay of the baseline report deadline because in some cases extensive engineering analysis may be critically dependent upon the category determination outcome. The regulations have been amended accordingly. However, this change does not affect the final compliance date established by the Pretreatment Standard.

Several commenters sought additional guidance on the procedures to be followed in preparing the baseline report required by § 403.12(b). Interim guidance on preparing this report was published in the Wednesday, March 26, 1980 Federal Register at page 19556 (45 FR 19556). The sampling and analysis procedures incorporated into today's final regulation adopt the procedures specified in the March 26 notice. Like the March 26 notice, today's regulation allows facilities with average daily process flows less than 250,000 gallons/ day to take fewer samples in arriving at the baseline effluent data. Facilities with flows under 250,000 gallons/day must take 3 samples within a two-week period. Facilities with process flows over 250,000 gallons/day are required to take 6 samples within a two-week period. More than % of the industries to be regulated by categorical Pretreatment Standards (and more than 81% of electroplaters) have average daily process flows less than 250,000 gallons/ day.

One commenter expressed concern that the regulations provided no guidance as to reporting format, amount of data required or degree of detail expected in documenting compliance plans (§ 403.12(b)(7)). EPA's response to this commenter and to others who have individually sought guidance is that any reasonable and orderly format will be an acceptable format for the reports. The degree of detail required is the degree of detail sufficient to explain to the Control Authority the logical analysis used by the Industrial User in arriving at dates for identifiable benchmarks toward full compliance, and adequate description of the benchmarks so that a reasonable POTW operator can recognize whether or not those benchmarks toward full compliance are being achieved on schedule.

There is presently no prepared form for use in fulfilling the baseline monitoring report requirements of § 403.12(b). In preparing this first report, the User should simply provide the information required by the 7 subparagraphs of § 403.12(b) in the order

given with as much detail and clarity as possible. Any orderly submission containing all of the required information will be considered adequate.

EPA intends to develop baseline reporting forms. That action will not be retroactive. Industrial Users submitting reports based on the requirements of § 403.12(b) will not be required to re-do the reports to conform to the formal reporting format when it is developed.

§ 403.12(b)(4) Reporting of Flow.

The October 1979 proposal to change § 403.12(b)(4) has been adopted today to allow reporting of estimated flows rather than measured flows where the Control Authority approves of these estimates in recognition of cost or feasibility considerations. For example, where existing structural conditions would result in serious disruption of business operations or require extensive replumbing, verifiable estimates may be accepted at the discretion of the Control Authority.

One POTW commented that it believes that large Industrial Users should be required to install flow monitoring equipment because of significant error observed in the use of estimated flows based on potable water metering readings. The promulgated version of § 403.12(b)(4) reserves to the Control Authority the necessary discretion to deal with local concerns in this area.

In addition, paragraph (b)[4](ii) crossreferences subparagraph (b)[5](v) of this section and provides that Industrial Users electing to employ an alternate combined wastestream limit in accordance with § 403.6(e) submit the flow informaton necessary to calculate this alternate limit.

§ 403.12(b)(5) Reporting of Pollutants.

Several commenters maintained that the proposed § 403.12(b)(5) imposed upon Industrial Users an unjustified and unwarranted burden to monitor all pollutants from each regulated process. The intent of the paragraph is made clear today by the amendment to § 403.12(b)(5)(ii) which requires that, the Industrial Users must report on the nature and concentration of regulated pollutants which are controlled in the applicable Pretreatment Standard.

Paragraph (b)(5)(ii) also has been amended to provide that information on the mass of pollutants in the User's discharge may be required in certain circumstances. For example, where the categorical Pretreatment Standard employs mass rather than concentration limits, the User will be required to report, under paragraph (b)(5)(ii), on the

mass of the regulated pollutants in the regulated process. Similarly, the User would be required to provide information on mass where the Control Authority has elected to exercise its discretion to impose mass limitations.

In addition, this paragraph has been amended to include subparagraph (v) which requires that Users employing an adjusted limit, as provided for by § 403.6(e), submit the flow and concentration information needed to establish the alternate limit. Reference to the equation in § 403.6(e) reveals that, under certain circumstances. information is needed on the flow of the regulated stream(s), the total flow through the combined treatment facility and the flow from certain streams having a high potential for dilution as listed under the definition of F_D in § 403.6(e)(1).

§ 403.12(b)(7) Reporting on Adjusted Limits.

Two subparagraphs have been added to paragraph (b)(7). Subparagraph (i) provides that the information required by paragraphs (b) (6) and (7) will pertain to an adjusted categorical Pretreatment Standard in certain circumstances. Where the categorical Pretreatment Standard limit has been adjusted, prior to the deadline for submitting the § 403.12(b) report, as a result of a removal allowance, fundamentally different factors variance or application of the combined wastestream formula, the User will report on this adjusted Standard.

Subparagraph (ii) addresses the situation where the § 403.12(b) report has been submitted prior to the adjustment of a categorical Pretreatment Standard limit under one of the abovecited provisions. Where an adjusted standard is arrived at after the § 403.12(b) report deadline, the information required by paragraphs (b) (6) and (7) must be amended where necessary. For example, the original certification under paragraph (b)(6) may have indicated that the applicable categorical Pretreatment Standard was not being complied with and the User, accordingly, would have submitted a compliance schedule under the provisions of paragraph (b)(7). If a fundamentally different factors variance relaxing the Standard was granted subsequent to the submission of the § 403.12(b) report resulting in a relaxation of the Standard to the extent that the User was able to meet the adjusted limit without additional treatment, the Use would send in an amended paragraph (b)(6) statement indicating current compliance and would concurrently amend the

compliance schedule to reflect the fact that the adjusted standard was being met. According to paragraph (b)(7)(ii), the User has 60 days from the date on which the adjusted limit is approved in which to submit this amended information.

§ 403.12(g) Frequency of Self-Monitoring for Compliance with Categorical Pretreatment Standards.

The proposed amendments to the electroplating categorical Pretreatment Standards (45 FR 45322 (July 3, 1980)) indicated that the frequency of monitoring for those Industrial Users subject to the Pretreatment Standards would be prescribed by the general pretreatment regulations. The Agency has decided to abide by its original decision, reflected in § 403.12(g) of the general pretreatment regulations promulgated on June 26, 1978 to include these monitoring requirements in the individual categorical Pretreatment Standards rather than in the general pretreatment regulations. The Agency decided that the development of generic monitoring requirements to be included in the general pretreatment reguations and applied uniformly to all Users would result in an unacceptable sacrifice of EPA's ability to tailor these requirements to the circumstances of individual industries. Factors such as cost and the toxicity of the regulated parameters should be factored into a determination of necessary monitoring frequency and techniques on an industry-by-industry basis.

§ 403.13 Fundamentally Different Factors Variances.

Today's final reguation makes several changes to the fundamentally different factors (FDF) variance provision proposed in the January 16, 1980 Federal Register. First, the Agency has made slight modifications to \$ 403.13(c)(1) describing the conditions under which a fundamentally different factors variance will be granted. Second, the Agency hasmodified the FDF regulations to reflect the interaction between § 403.13 and the combined flow formula of § 403.6(e). Finally, the Agency has modified § 403.13 to include public participation provisions not originally included in the January 1980 proposal. In addition, the Agency has amended 40 CFR Part 125 of the Consolidated Permit Regulations (prescribing FDF variance criteria for direct discharges) to make it clear that FDF criteria and procedures applicable to indirect dischargers are determined exclusively by the provisions of § 403.13. § 403.13(c) Standards for Approving FDF Variances.

Section 403.13(c)(1) has been reorganized to place subparagraphs (i) through (iii) in a more logical order. In addition, the reference to a permit found in subparagraph (c)(1)(i) has been deleted and replaced by a reference to the categorical Pretreatment Standard. The reference to a permit was inappropriate since indirect dischargers are regulated through categorical Pretreatment Standards published in the Federal Register rather than through individual permits.

Subparagraph (ii) of § 403.13(c)(2) has been amended to indicate that an FDF variance request for less stringent standards will be approved only if the alternative limit requested will not cause the industry to violate any of the prohibited discharge standards set forth in § 403.5 of these regulations. In the January 1980 proposal, this subparagraph specified that the alternative limit must not cause Interference with the POTW. The subparagraph has been amended to reflect the changes made to § 403.5 which adds to the interference prohibition a prohibition on the unacceptable pass-through of pollutants.

In addition, a new subparagraph has been added under § 403.13(c)(2) which provides that a less stringent limit may not be approved if such a limit would result in a non-water quality impact fundamentally more adverse than the impact considered during the development of the Standards. This new subparagraph mirrors a comparable provision found in § 403.13(c)(3) pertaining to requests for more stringent standards through an FDF variance. Section 403.13(c)(3)(ii)(B) provides that a more stringent standard will not be approved if the amended limit would result in a more adverse non-water quality impact.

§ 403.13(d) Factors Considered Fundamentally Different.

Today's final regulation amends the comment following § 403.13(d)(1). The comment proposed in the January 1980 amendments reflects a similar provision found in the NPDES Permit regulation provisions pertaining to FDF variances (40 CFR 125.31(d)(1); 44 FR 32951, June 7, 1979). The comment in the NPDES Reguations explains that processes considered in setting the effluent guideline will be eligible for an FDF variance while process water wastestreams which are not considered in the development of the national limits will not be treated as fundamentally different. The comment to § 125.31(d)(1)

provides that limits for these unregulated wastestreams will be developed on a case-by-case basis according to the Agency's authority under section 402(a)(1) of the CWA. The Agency's authority to place limits on wastestreams not specifically regulated by Pretreatment Standards differs from its authority to regulate such streams for direct dischargers. The modification to the comment in § 403.13(d)(1) reflects this difference. Where a facility with processes regulated by categorical Pretreatment Standards elects to mix this process wastewater with wastewater from lines not regulated by Federal standards, the formula in § 403.6(e) provides a mechanism for computing alternative concentrationbased limits to be met at the end of the joint treatment. The comment to § 403.13(d)(1) provides that Industrial Users may request an FDF variance from this modified effluent limitation.

In addition, in response to a suggested modification, the comment following paragraph 403.13(d)(6) (formerly in paragraph (c)(3)) has been amended to clarify that in determining whether or not a particular factor is fundamentally different the EPA will consider pertinent information submitted by the requestor.

§ 403.13(g) Application Deadline.

Several commenters indicated that the proposed time period for requesting an FDF variance is unduly restrictive. The proposed regulation provides that an indirect discharger desiring to request an FDF variance must do so within 90 days after the promulgation of the categorical Pretreatment Standard from which the variance is requested. In light of the time period traditionally allowed for direct dischargers requesting an FDF variance, this 90-day deadline would not appear unduly restrictive. Under the provisions of 40 CFR 122.53(i)(1), a direct discharger requesting an FDF variance must do so within the 30 day comment period provided for the draft permit. However, most direct dischargers have some idea of the effluent limit which will be imposed through the permit a good deal of time before the permit appears in draft form. The effluent standard on which the permit is based may be promulgated months before the permit-development work begins. Thus direct dischargers may begin preliminary work on their FDF variance prior to the 30-day period allowed by the consolidated permit regulation. In an attempt to provide indirect dischargers with approximately the same amount of time for developing an FDF variance as is allowed for direct dischargers the Agency is extending the FDF deadline to 180 days from the effective date of the

applicable categorical Pretreatment Standard.

In addition, paragraph (g)(3) provides that an Industrial User which has requested a determination by EPA or the State as to its proper industrial category (see § 403.6(a)) may elect to await the outcome of that determination prior to requesting an FDF variance. A User wishing to take advantage of this provision must submit a request for an FDF variance within 30 days after the State or EPA makes a determination on the User's category classification.

§ 403.13(i) Public Notice.

The provisions of § 403.13 have been amended to provide for public notice and public participation in the FDF variance decision-making process. Section 403.13(j) provides that upon receipt of an FDF variance the State or EPA must provide notice to interested parties of the application. A 30 day period is then allowed for interested parties to review this submission and submit comments. At the end of this thirty day review and comment period the State or EPA will make a final determination on the FDF request and provide notice of this determination. Paragraph (j) provides that the person requesting the variance or any other interested party may request a hearing on the Enforcement Division Director's final variance determination within thirty days following receipt of notice of that determination.

§ 403.14 Confidentiality.

Section 403.14 has been amended to specify the trade secret and confidential information protection to be provided by EPA and State and local governments. Paragraph (a) provides that EPA must comply with 40 CFR Part 2 in granting protection to confidential information once the submitter follows certain steps in claiming confidentiality.

Paragraph (b) makes it clear that effluent data, whether submitted to the POTW, State or EPA, shall be available to the public without restriction.

Paragraph (c) provides that States and POTWs must grant public access to at least the same type of information as does EPA. The Agency will not, however, dictate how a State or POTW must treat other information submitted to it.

These changes were made to conform § 403.14 to the Consolidated Permit regulations (40 CFR § 122.19 and § 123.7 (May 19, 1980.))

Section 403.15 Net/Gross. Section 403.15 provides for calculation of Industrial User effluent limits based on net terms rather than gross terms. Industrial Users subject to categorical

Pretreatment Standards may receive a credit, under specified conditions, for pollutants present in their intake waters. This provision is patterned after a similar provision applicable to direct dischargers and found in § 122.63(h) of the Consolidated Permit regulations.

Comments on § 403.15 are roughly divisible into two major categories. Several commenters objected only to the language of § 403.15(a)(1) which precludes the calculation of a net limitation for pollutants found in intake water drawn from the city water system. This language appears in § 403.15 but not in the consolidated permit regulations. Another group of commenters voiced more fundamental objections to the net/gross system as set forth in both in the consolidated and

pretreatment regulations.

EPA agrees with the commenters who felt that the restriction on granting net/ gross credits for pollutants found in city water was unreasonable and this limitation accordingly has been eliminated in the final regulation. With this one exception, the final reuglation continues to limit the availability of the credit to those dischargers who discharge their effluent to the same body of water from which they received their influent. The rationale for this restriction continues to be that enunciated in the preamble to the net/ gross provision in the June 7, 1979 NPDES regs (44 FR 32865). While a discharger should not be held responsible for pollutants already existing in its water supply if the discharge is into the same body of water from which the discharger took water. the same reasoning cannot support allowance of a credit where the discharge is into another body of water. The grant of a credit in the latter case would allow a discharger to transfer pollutants from one body of water to another, thus, adding pollutants to receiving waters for the first time.

The second group of commenters suggested major changes to the net/ gross provisions appearing both in § 403.15 of the general pretreatment regulations and in § 122.63 of the Consolidated Permit regulations. For the reasons set forth in the preamble to the aforementioned June 7, 1979, NPDES regulations, EPA has not deleted any of the conditions necessary for achieving a net/gross credit. EPA considers these conditions to be reasonable, consistent with court decisions, and necessary to achieving the goals of the Act.

The limitations upon the net/gross provision in these final regulations grow out of the technical basis on which categorical Pretreatment Standards are established. Without exception, EPA has

developed Pretreatment Standards on a gross, not a net, basis. The Standards assume that a treatment technology will achieve a final effluent concentration which is independent of fluctuations in influent concentration, within a very broad range. The effluent levels achieved by good treatment may be close to background levels in some receiving waters. This fact underlines the mischief which can result from an indiscriminate application of net limitations. A plant may have a treatment system which, properly operated, achieves a suspended solids limit of 15 mg/l with a raw waste between 150-600 mg/l or more. If the intake concentration is 15 mg/l, this will have no effect upon the achievable final effluent concentration. Yet indiscriminate application of the net requirement would allow the User to discharge 30 mg/l, or twice the concentration which a well-run treatment system should achieve. For this reason, EPA has restricted the application of the net allowance to those cases where the treatment required by the Act will not remove the pollutants in the intake water (such as, for example, where cooling water is discharged without settling).

Some commenters objected to the requirement that a credit will only be allowed for pollutants present after any treatment steps have been performed on the intake water. These commenters suggested that EPA has no jurisdiction to regulate intake pollutants but may only regulate pollutants added by the discharger. See Appalachian Power Co. v. Train, 545 F;2d 1351, 1377 (4th Cir. 1976). In Appalachian Power the court held that EPA only had jurisdiction over pollutants added by the discharger. EPA believes that when a source changes the character or concentration of an intake pollutant and then discharges it, the source is, in effect, adding a pollutant to the water. For example, one step in the pretreatment of intake water in many industries is chlorination to protect pipes and process equipment from algae formation. This treatment will result in chlorination of the intake pollutants thereby rendering them more toxic. When this occurs, the User should not be allowed to pass through those pollutants in its wastestream without some responsibility for treatment. If the User can demonstrate that the character or concentration of the pollutants has not changed after pretreatment, or that any change in concentration will not have a detrimental effect on the POTW or the POTW's receiving water, then a credit for the pollutants will be allowed.

These determinations will have to be made on a case-by-case basis.

A credit may be allowed for the amount of pollutant remaining in a User's intake water after any treatment of the intake waters and wastewater treatment. Thus, if a User treats its intake water and removes 90 percent of a pollutant, the User may be entitled to a credit for the remaining ten percent left in the water used in the plant process. If the User's waste treatment system also removes 90 percent of the pollutant, the User's credit of ten percent shall be reduced by 90 percent because the pollutant remaining in the influent is being treated a second time, thereby, reducing the pollutant by an additional 90 percent. Therefore, the User's total credit following both treatments would be one percent of the pollutant in the original influent.

Some commenters objected to the requirement in § 403.15(a)(3) that a credit could not be granted where the pollutants in the intake waters were 'chemically or biologically" different from the discharge water. This requirement was considered vague and overly broad. EPA disagrees. Generic pollutant parameters such as biochemical oxygen demand [BOD], chemical oxygen demand [COD], total organic carbon [TOC] or total suspended solids [TSS] are broad measurements of a number of specific chemicals or materials. TSS, as measured at an intake point, may consist mostly of river silt; but after being used in a process the TSS, as measured at the outfall, may include substantial quantities of metals or other materials with toxic characteristics. EPA considers it essential to avoid allowance of credit when the pollutants in the discharge water vary significantly in toxicity from the pollutants in the intake water. Industrial Users should not be allowed an unrestricted right to add more toxic pollutants to their discharge waters.

In addition, several commenters objected to the 60-day deadline for requesting a net/gross credit, noting that the Consolidated Permit regulations do not impose a similar constraint. These commenters pointed out that in many cases treatment technology would need to be installed before a User could satisfy the demonstrations needed to receive a credit. EPA agrees with this comment and accordingly has deleted the time limitation on applying for a net/gross credit.

§ 403.16 Upset.

The Upset Provision proposed in October 1979 was modeled after 40 CFR Part 122.60(b) and (h) (formerly found in § 122.14(1) of the NPDES regulation promulgated on June 7, 1979). EPA adheres to the explanation and rationale for the upset provision enunciated in the preamble to the NPDES regulation promulgated on June 7, 1979 (44 FR 32863). The language of § 403.16 also has been modified to conform with the changes made to the upset provision in the May 19, 1980 Consolidated permit regulations (45 FR 33448). The only other change in the amended version of § 403.16 is the specification of the recipient of upset reports.

§ 403.16(a) Definition of Upset.

Many comments were received on this provision from Industrial Users concerned that literal reading of the phrases pertaining to the applicability of this provision would the defense useless. It must be pointed out that the provision governs one area of prosecutorial discretion. Failure to meet specific criteria described here does not prohibit Agency enforcement personnel from exercising discretion in other cases where prosecution is not warranted. Furthermore, upsets themselves are deemed exceptional incidents that are temporary, unintentional and beyond reasonable control of the Industrial User. The failure to have properly designed treatment facilities or lack of proper maintenance and operation will result in more than occasional upsets.

Though variability in process waste output and pretreatment equipment performance are normally expected, upsets are abnormal excursions from the variability already contemplated by EPA in establishing technology based pretreatment standards. Properly designed and operated pretreatment facilities should not experience upset except for causes which are beyond reasonable expectation.

Several commenters specifically directed their remarks to the exclusion by EPA of operator error as a grounds for the upset defense. The purpose and the coverage of the upset provision is not to provide a blanket excuse for failure to meet Pretreatment Standards. Operator error is clearly within the reasonable control and responsibility of the Industrial User. The legal consequences of such error cannot be dealt with by providing simple regulatory absolution. This section does not impair judicial and prosecutorial discretion to deal with the occasional benign operator error situation. Furthermore, it is only fair to the many dischargers who expend substantial effort to maintain and operate properly their treatment works that those who use less care are not categorically exempted from liability. Finally,

operator error does not include improper responses to new and exceptional circumstances as determined by hindsight. Operator error can only be judged according to the standard of what would have been a reasonable response to any given situation as it presented itself. However, operator error arising out of negligence or failure to attempt to control incipient upsets, or the failure to operate in a workmanlike manner are not grounds for the use of the upset provision.

One POTW commented that the upset provision should apply to Standards developed under § 403.5 by the Control Authority as well as to the categorial Standards. EPA's response is that it remains the option of the Control Authority to adopt parallel provisions to govern violation of local Standards. However, EPA's use of the upset provision is limited to the technology based categorical limits.

§ 403.16(c) Conditions Necessary for Demonstration of Upset.

The requirement to describe with specificity the cause(s) of upset generated several comments disparaging the ability of an Industrial User to know or discover in all cases the actual cause of an upset. EPA recognizes that in some cases an actual cause for an upset cannot be determined. However, as was explained in the June 7, 1979 preamble to § 122.14(l) (now § 122.60(h)) the Agency may still exercise prosecutorial discretion not to enforce in situations where prosecution is not warranted. The purpose of § 403.16 is to set out one affirmative defense and outline for the exercise of prosecutorial discretion. This regulation encourages the Industrial User to examine its treatment operation and to understand its vulnerability and sensitivity to upsets. It reasonably places the burden to establish upset causes upon the Industrial User. The Agency would be hindering its discretionary judgement by allowing upsets without known causes to be automatically exempt from liability.

Section 403.16(c)(3) has been promulgated today with a clarification that the POTW and Control authority are to receive the information required under § 403.16. EPA will require documentation of any reporting before exercising its discretion under § 403.16.

§ 403.16(f) User Responsibility in Case of Upset.

The proposal requires an Industrial User to control production and all discharges upon reduction, loss, or failure of the treatment facility, until the facility is restored or an alternate method of treatment provided. Some

commenters argued that this requirement to control both production and discharges is burdensome and that some flexibility should be allowed based on the degree of noncompliance. EPA agrees in part and has revised § 403.16(f) to require a User to control either production or all discharges rather than both. However, if the circumstances warrant the Industrial User may still be required to control both production and all discharges.

VI. Reporting Impacts

Two new reporting requirements are imposed by the final amended regulations. These requirements are only invoked where the Industrial User exercises his discretion to make use of a variance provision provided by EPA. Where a User elects to develop an alternate limit through use of the combined wastestream formula in § 403.6(e), the User must report the necessary flow information to EPA in the 180-day report required by § 403.12(b). Similarly, when an Industrial User elects to make use of the net/gross provision of § 403.15, the User must make application for this variance as provided for in that section.

The Agency has received numerous requests from Industrial Users seeking

clarification of reporting requirements. In response to these requests, the Agency is developing reporting forms for use by industries. EPA has initiated discussion on these forms with the Office of Management and Budget [OMB], and expects to submit the forms to OMB shortly.

VII. Executive Order 12044

These amendments to the general pretreatment regulations are "Significant regulations" under Executive Order 12044, and, therefore, are subject to the requirements of that Order. However, these amendments do not meet the criteria for a Regulatory Analysis. The Administrator had determined that the changes embodied in these amendments do not have "major economic consequences" requiring preparation of an economic impact statement under Executive Order 12044 because the amendments do not impose additional costs on Industrial Users, States, or municipalities. The analysis conducted prior to the promulgation of the original pretreatment regulations in June of 1978 estimated that the following total costs would be borne by POTWs, NPDES States and industrial users over the next 5 vears:

Annual Costs

[in thousands of dollars]

<i>x</i> ,	1979	1980	1981	1982	1983
Municipal costs	\$231 13,434 2,196	\$842 13,662 3,686	\$5,586 11,829 5,790	\$9,371 9,962 4,298	\$17,043 3,213
Total	15,861	18,190	23,205	23,631	20,256

Costs for each POTW, NPDES State and industrial user were broken down as follows:

	1979	1980	1981	1982	1983
Municipal costs (dollars per POTV)	\$1,737	\$2,913	\$9,835	\$16,498	\$48,920
	447,800	455,400	394,300	332,067	107,100
	460	460	460	460	0

The decreasing NPDES State costs and increasing POTW costs represent the effect of shifting the burden of the pretreatment program from the States to municipalities as POTW pretreatment programs become operational. (The costs to POTWs shown above are net of the estimated benefits realized by some POTWs who are able to shift from sludge disposal to beneficial use of sludge.)

We have no reason to believe that these figures have ceased to be

accurate. Some NPDES States have estimated costs several magnitudes greater than those listed above, but the cost information from the currently-operating State pretreatment programs generally supports the figures above. The total industry costs per year listed on the first chart are possibly higher because more industries may be regulated than the 40,000 assumed for the purpose of that chart. Since effluent guidelines for all industrial users have not yet been developed, it is difficult to

be more specific about costs.

The changes made in the amended final regulations will not result in additional costs beyond those considered in the original economic impact analysis. Indeed, there may be cost savings attributable to some of the new provisions. For example, § 403.12(b)(5) now makes it clear that industries need only sample for the presence of pollutants regulated by applicable Standards, not all 65 parameters specified in the Act, in conducting the baseline survey required by this paragraph. In addition, inclusion of the combined wastestream formula in § 403.6(e) allows many industries presently operating combined treatment operations to continue to treat streams jointly rather than forcing them to undertake costly measures to segregate the streams and treat them separately. The latter course would have been required by operation of the categorical pretreatment standards in the absence of a combined wastestream formula. Finally, the "consistent removal" definition as originally promulgated would have required POTWs to obtain more than 12 samples of the POTW's influent and effluent in order to arrive at a statistically sound representation of the POTW's removal ability. The adjusted definition in the final amendments allows the POTW to compile a statistically sound representation using fewer sampling points and thereby lowers the cost of demonstrating removal.

In accordance with the remaining requirements of Executive Order 12044, EPA is committed to evaluating significant new regulations within five years of implementation. An evaluation plan will be included as part of the guidance package that will be prepared in the near future. EPA anticipates the evaluation plan will include assessments of reporting requirements.

VIII. Effect of Reprinting Entire Text of Part 403

Today's amendments revise part, but not all, of the existing 40 CFR Part 403 published on June 26, 1978. In the regulatory section of this notice, however, EPA has reprinted the entire Part 403 as it is revised by these amendments. Those portions of the June 26, 1978 regulations that are not substantively amended in today's Federal Register are only subject to judicial review in those petitions for review that were filed within 90 days of

the date of issuance of the June 26, 1978 regulations.

Douglas M. Costle, Administrator. January 13, 1981.

40 CFR Part 403 is revised to read as follows:

PART 403—GENERAL PRETREATMENT REGULATIONS FOR **EXISTING AND NEW SOURCES OF POLLUTION**

Sec.

403.1 Purpose and applicability.

Objective of general pretreatment 403.2 regulation.

403.3 Definitions.

State or local law. 403.4

National pretreatment standards: prohibited discharges.

403.6 National pretreatment standards: categorical standards.

403.7 Revision of categorical pretreatment standards to reflect POTW removal of pollutants.

403.8 POTW pretreatment programs: development by POTW

403.9 POTW pretreatment programs and/or authorization to revise pretreatment standards: submission for approval.

403.10 Development and submission of NPDES State pretreatment programs.

403.11 Approval procedures for POTW programs and revisions of categorical pretreatment standards.

403.12 Reporting requirements for POTW's and industrial users.

403.13 Variances from categorical pretreatment standards for fundamentally different factors.

403.14 Confidentiality.

Net/Gross calculation. 403.15

403.16 Upset provision.

Appendix A—PRM 75-34.
Appendix B—65 Toxic pollutants.
Appendix C—34 Industrial categories.
Appendix D—Selected industrial

subcategories exempted from regulated pursuant to paragraph 8 of the NRDC v. Costle consent decree.

Authority: Section 54(c)(2) of the Clean Water Act of 1977 (Pub. L. 95-217), §§ 204(b)(1)(C), 208(b)(2)(C)(iii), 301(b)(1)(A)(ii), 301(b)(2)(A)(ii), 301(b)(2)(C), 301(b)(5), 301(i)(2), 304(e), 304(g), 307, 308, 309, 402(b), 405, and 501(a) of the Federal Water Pollution Control Act (Pub. L. 92-500), as amended by the Clean Water Act of 1977.

§ 403.1 Purpose and applicability.

(a) This part implements sections 204(b)(1)(C), 208(b)(2)(C)(iii), 301(b)(1)(A)(ii), 301(b)(2)(A)(ii), 301(h)(5) and 301(i)(2), 304 (e) and (g), 307, 308, 309, 402(b), 405, and 501(a) of the Federal Water Pollution Control Act as amended by the Clean Water Act of 1977 (Pub. L. 95-217) or "The Act." It establishes responsibilities of Federal, State, and local government, industry and the public to implement National Pretreatment Standards to control

pollutants which pass through or interfere with treatment processes in Publicly Owned Treatment Works (POTWs) or which may contaminate sewage sludge.

(b) This regulation applies: (1) to pollutants from non-domestic sources covered by Pretreatment Standards which are indirectly discharged into or transported by truck or rail or otherwise introduced into POTWs as defined below in § 403.3; (2) to POTWs which receive wastewater from sources subject to National Pretreatment Standards; (3) to States which have or are applying for National Pollutant Discharge Elimination System (NPDES) programs approved in accordance with section 402 of the Act; and (4) to any new or existing source subject to Pretreatment Standards. National Pretreatment Standards do not apply to sources which Discharge to a sewer which is not connected to a POTW Treatment Plant.

§ 403.2 Objectives of general pretreatment regulations.

By establishing the responsibilities of government and industry to implement National Pretreatment Standards this regulation fulfills three objectives: (a) to prevent the introduction of pollutants into POTWs which will interfere with the operation of a POTW, including interference with its use or disposal of municipal sludge; (b) to prevent the introduction of pollutants into POTWs which will pass through the treatment works or otherwise be incompatible with such works; and (c) to improve opportunities to recycle and reclaim municipal and industrial wastewaters and sludges.

§ 403.3. Definitions.

For the purpose of this regulation: (a) Except as discussed below, the general definitions, abbreviations, and methods of analysis set forth in 40 CFR

Part 401 shall apply to this regulation.
(b) The term "Act" means Federal
Water Pollution Control Act, also known as the Clean Water Act, as amended, 33 U.S.C. 1251, et seq.

(c) The term "Approval Authority" means the Director in an NPDES State with an approved State pretreatment program and the appropriate Regional Administrator in a non-NPDES State or NPDES State without an approved State pretreatment program.

(d) The term "Approved POTW Pretreatment Program" or "Program" or "POTW Pretreatment Program" means a program administered by a POTW that meets the criteria established in this regulation (§§ 403.3 and 403.9) and which has been approved by a Regional Administrator or State Director in

accordance with § 403.11 of this regulation.

(e) The term "Director" means the chief administrative officer of a State or Interstate water pollution control agency with an NPDES permit program approved pursuant to section 402(b) of the Act and an approved State

pretreatment program. (f) The term "Enforcement Division Director" means one of the Directors of the Enforcement Divisions within the Regional offices of the Environmental

Protection Agency or this person's delegated representative.

(g) The term "Indirect Discharge" or "Discharge" means the introduction of pollutants into a POTW from any nondomestic source regulated under section

307(b), (c) or (d) of the Act.
(h) The term "Industrial User" or "User" means a source of Indirect

Discharge.

- (i) The term "Interference" means an inhibition or disruption of the POTW, its treatment processes or operations, or its sludge processes, use or disposal which is a cause of or significantly contributes to either a violation of any requirement of the POTW's NPDES permit (including an increase in the magnitude or duration of a violation) or to the prevention of sewage sludge use or disposal by the POTW in accordance with the following statutory provisions and regulations or permits issued thereunder (or more stringent State or local regulations): Section 405 of the Clean Water Act, the Solid Waste Disposal Act (SWDA) (including title II more commonly referred to as the Resource Conservation and Recovery Act (RCRA) and including State regulations contained in any State sludge management plan prepared pursuant to Subtitle D of the SWDA), the Clean Air Act, and the Toxic Substances Control Act. An Industrial User significantly contributes to such a permit violation or prevention of sludge use or disposal in accordance with above-cited authorities whenever such User:
- (1) Discharges a daily pollutant loading in excess of that allowed by contract with the POTW or by Federal. State or local law;

(2) Discharges wastewater which substantially differs in nature or constituents from the User's average Discharge; or

(3) Knows or has reason to know that its Discharge, alone or in conjunction with Discharges from other sources, would result in a POTW permit violation or prevent sewage sludge use or disposal in accordance with the above-cited authorities as they apply to the POTW's selected method of sludge management.

(j) The term "National Pretreatment Standard," "Pretreatment Standard," or "Standard" means any regulation containing pollutant discharge limits promulgated by the EPA in accordance with section 307 (b) and (c) of the Act, which applies to Industrial Users. This term includes prohibitive discharge limits established pursuant to § 403.5.

(k) The term "New Source" means any building, structure, facility, or installation from which there is or may be a Discharge, the construction of

which commenced:

(1) After promulgation of Pretreatment Standards under section 307(c) of the Act which are applicable to such source; or

(2) After proposal of Pretreatment Standards in accordance with section 307(c) of the Act which are applicable to such source, but only if the Standards are promulgated in accordance with section 307(c) within 120 days of their

(Î) The terms "NPDES Permit" or "Permit" means a permit issued to a POTW pursuant to section 402 of the

Act.

(m) The term "NPDES State" means a State (as defined in 40 CFR § 122.3) or Interstate water pollution control agency with an NPDES permit program approved pursuant to section 402(b) of the Act.

(n) The term "Pass Through" means the Discharge of pollutants through the POTW into navigable waters in quantities or concentrations which are a cause of or significantly contribute to a violation of any requirement of the POTW's NPDES permit (including an increase in the magnitude or duration of a violation). An Industrial User significantly contributes to such permit violation where it:

(1) Discharges a daily pollutant loading in excess of that allowed by contract with the POTW or by Federal,

State, or local law;

(2) Discharges wastewater which substantially differs in nature and constituents from the User's average Discharge:

(3) Knows or has reason to know that its Discharge, alone or in conjunction with Discharges from other sources, would result in a permit violation; or

(4) Knows or has reason to know that the POTW is, for any reason, violating its final effluent limitations in its permit and that such Industrial User's Discharge either alone or in conjunction with Discharges from other sources, increases the magnitude or duration of the POTW's violations.

(o) The term "Publicly Owned Treatment Works" or "POTW" means a treatment works as defined by section 212 of the Act, which is owned by a State or municipality (as defined by section 502(4) of the Act). This definition includes any devices and systems used in the storage, treatment, recycling and reclamation of municipal sewage or industrial wastes of a liquid nature. It also includes sewers, pipes and other conveyances only if they convey wastewater to a POTW Treatment Plant. The term also means the municipality as defined in section 502(4) of the Act, which has jurisdiction over the Indirect Discharges to and the discharges from such a treatment works.

(p) The term "POTW Treatment Plant" means that portion of the POTW which is designed to provide treatment (including recycling and reclamation) of municipal sewage and industrial waste.

(q) The term "Pretreatment" means the reduction of the amount of pollutants, the elimination of pollutants, or the alteration of the nature of pollutant properties in wastewater prior to or in lieu of discharging or otherwise introducing such pollutants into a POTW. The reduction or alteration may be obtained by physical, chemical or biological processes, process changes or by other means, except as prohibited by § 403.6(d). Appropriate pretreatment technology includes control equipment. such as equalization tanks or facilities. for protection against surges or slug loadings that might interfere with or otherwise be incompatible with the POTW. However, where wastewater from a regulated process is mixed in an equalization facility with unregulated wastewater or with wastewater from another regulated process, the effluent from the equalization facility must meet an adjusted pretreatment limit calculated in accordance with § 403.6(e).

(r) The term "Pretreatment Requirements" means any substantive or procedural requirement related to Pretreatment, other than a National Pretreatment Standard, imposed on an

Industrial User.

(s) The term "Regional Administrator" means the appropriate EPA Regional

Administrator.

(t) The term "Submission" means: (1) a request by a POTW for approval of a Pretreatment Program to the EPA or a Director; (2) a request by a POTW to the EPA or a Director for authority to revise the discharge limits in categorical Pretreatment Standards to reflect POTW pollutant removals; or (3) a request to the EPA by an NPDES State for approval of its State pretreatment program.

§ 403.4 State or local law.

Nothing in this regulation is intended to affect any Pretreatment Requirements, including any standards or prohibitions, established by State or local law as long as the State or local requirements are not less stringent than any set forth in National Pretreatment Standards, or any other requirements or prohibitions established under the Act or this regulation. States with an NPDES permit program approved in accordance with section 402 (b) and (c) of the Act, or States requesting NPDES programs, are responsible for developing a State pretreatment program in accordance with § 403.10 of this regulation.

§ 403.5 National pretreatment standards: prohibited discharges.

(a) General prohibitions. Pollutants introduced into POTW's by an nondomestic source shall not Pass Through the POTW or Interfere with the operation or performance of the works. These general prohibitions and the specific prohibitions in paragraph (b) of this section apply to all non-domestic sources introducing pollutants into a POTW whether or not the source is subject to other National Pretreatment Standards or any national, State, or local Pretreatment Requirements.

(b) Specific prohibitions. In addition, the following pollutants shall not be

introduced into a POTW:

(1) Pollutants which creat a fire or explosion hazard in the POTW;

(2) Pollutants which will cause corrosive structural damage to the POTW, but in no case Discharges with pH lower than 5.0, unless the works is specifically designed to accommodate such Discharges;

(3) Solid or viscous pollutants in amounts which will cause obstruction to the flow in the POTW resulting in

Interference:

(4) Any pollutant, including oxygen demanding pollutants (BOD, etc.) released in a Discharge at a flow rate and/or pollutant concentration which will cause Interference with the POTW.

(5) Heat in amounts which will inhibit biological activity in the POTW resulting in Interference, but in no case heat in such quantities that the temperature at the POTW Treatment Plant exceeds 40°C (104°F) unless the Approval Authority, upon request of the POTW, approves alternate temperature limits.

(c) When Specific Limits Must be Developed by POTW. (1) POTW's developing POTW Pretreatment Programs pursuant to § 403.8 shall develop and enforce specific limits to implement the prohibitions listed in § 403.5 (a) and (b).

(2) All other POTW's shall, in cases where pollutants contributed by User(s) result in Interference or Pass-Through,

and such violation is likely to recur,

develop and enforce specific effluent limits for Industrial User(s), and all other users, as appropriate, which, together with appropriate changes in the POTW Treatment Plant's Facilities or operation, are necessary to ensure renewed and continued compliance with the POTW's NPDES permit or sludge use or disposal practices.

(3) Specific effluent limits shall not be developed and enforced without individual notice to persons or groups who have requested such notice and an

opportunity to respond.

(d) Local Limits. Where specific prohibitions or limits on pollutants or pollutant parameters are developed by a POTW in accordance with paragraph (c) above, such limits shall be deemed Pretreatment Standards for the purposes of section 307(d) of the Act.

- (e) EPA and State Enforcement Actions. If, within 30 days after notice of an Interference or Pass Through violation has been sent by EPA or the NPDES State to the POTW, and to persons or groups who have requested such notice, the POTW fails to commence appropriate enforcement action to correct the violation, EPA or the NPDES State may take appropriate enforcement action.
- (f) Compliance Deadlines. Compliance with the provisions of this section is required beginning on [44 days after publication in the Federal Register], except for paragraph (b)(5) of this section which must be complied with by August 25, 1981.

§ 403.6 National Pretreatment Standards: Categorical Standards.

National Pretreatment Standards specifying quantities or concentrations of pollutants or pollutant properties which may be Discharged to a POTW by existing or new Industrial Users in specific industrial subcategories will be established as separate regulations under the appropriate subpart of 40 CFR Chapter I, Subchapter N. These Standards, unless specifically noted otherwise, shall be in addition to the general prohibitions established in § 403.5 of this regulation.

(a) Category Ďetermination Request. (1) Application Deadline. Within 60 days after the effective date of a Pretreatment Standard for a subcategory under which an Industrial User may be included, or within 60 days after the Federal Register notice announcing the availability of the technical development document for that subcategory, whichever is later, the existing Industrial User or POTW may request that the Enforcement Division Director or Director, as appropriate, provide written certification on whether

the Industrial User falls within that particular subcategory. A new source must request this certification prior to commencing discharge. Where a request for certification is submitted by a POTW, the POTW shall notify any affected Industrial User of such submission. The Industrial User may provide written comments on the POTW submission to the Enforcement Division Director or Director, as appropriate, within 30 days of notification.

(2) Contents of application. Each request shall contain a statement:

(i) Describing which subcategories

might be applicable; and

(ii) Citing evidence and reasons why a particular subcategory is applicable and why others are not applicable. Each such statement shall contain an oath stating that the facts contained therein are true on the basis of the applicant's personal knowledge or to the best of his information and belief. The oath shall be that set forth in § 403.7(b)(2)(ii), except that the phrase "§ 403.7(d)" shall be replaced with "§ 403.6(a)." [3] Deficient Requests. The

Enforcement Division Director or Director will only act on written requests for determinations that contain all of the information required. Persons who have made incomplete submissions will be notified by the Enforcement Division Director or Director that their requests are deficient and, unless the time period is extended, will be given 30 days to correct the deficiency. If the deficiency is not corrected within 30 days or within an extended period allowed by the Enforcement Division Director or the Director, the request for a determination shall be denied.

(4) Final Decision.

(i) When the Enforcement Division Director or Director receives a submittal he or she will, after determining that it contains all of the information required by paragraph (2) of this section, consider the submission, any additional evidence that may have been requested, and any other available information relevant to the request. The Enforcement Division Director or Director will then make a written determination of the applicable subcategory and state the reasons for the determination.

(ii) Where the request is submitted to the Director, the Director shall forward the determination described in this paragraph to the Enforcement Division Director who may make a final determination. The Enforcement Division Director may waive receipt of these determinations. If the Enforcement Division Director does not modify the Director's decision within 60 days after receipt thereof, or if the Enforcement Division Director waives receipt of the

determination, the Director's decision is final.

(iii) Where the request is submitted by the Industrial User or POTW to the Enforcement Division Director or where the Enforcement Division Director elects to modify the Director's decision, the **Enforcement Division Director's** decision will be final.

(iv) The Enforcement Division Director or Director, as appropriate, shall send a copy of the determination to the affected Industrial User and the POTW. Where the final determination is made by the Enforcement Division Director, he or she shall send a copy of the determination to the Director.

(5) Requests for Hearing and/or Legal Decision. Within 30 days following the date of receipt of notice of the final determination as provided for by paragraph (a)(4)(iv) of this section, the Requester may submit a petition to reconsider or contest the decision to the Regional Administrator who shall act on such petition expeditiously and state the reasons for his or her determination in

(b) Deadline for Compliance With Categorical Standards. Compliance by existing sources with categorical Pretreatment Standards shall be within 3 years of the date the Standard is effective unless a shorter compliance time is specified in the appropriate subpart of 40 CFR Chapter I, Subchapter N but in any case no later than July 1, 1984. Direct Discharges with NPDES permits modified or reissued to provide a variance pursuant to section 301(i)(2) of the Act shall be required to meet compliance dates set forth in any applicable categorical Pretreatment Standard. Existing sources which become Industrial Users subsequent to promulgation of an applicable categorical Pretreatment Standard shall be considered existing Industrial Users except where such sources meet the definition of a New Source as defined in § 403.3(k). Compliance with categorical Pretreatment Standards for New Sources will be required upon promulgation.

(c) Concentration and Mass Limits. Pollutant discharge limits in categorical Pretreatment Standards will be expressed either as concentration or mass limits. Wherever possible, where concentration limits are specified in standards, equivalent mass limits will be provided so that local, State or Federal authorities responsible for enforcement may use either concentration or mass limits. Limits in categorical Pretreatment Standards shall apply to the effluent of the process regulated by the Standard, or as otherwise specified by the Standard.

(d) Dilution Prohibited as Substitute for Treatment. Except where expressly authorized to do so by an applicable categorical Pretreatment Standard, no Industrial User shall ever increase the use of process water or, in any other way, attempt to dilute a Discharge as a partial or complete substitute for adequate treatment to achieve compliance with a categorical Pretreatment Standard. The Control Authority (as defined in § 403.12(a)) may impose mass limitations on Industrial Users which are using dilution to meet applicable Pretreatment Standards or in other cases where the imposition of mass limitations is appropriate.

(e) Combined Wastestream Formula. Where process effluent is mixed prior to treatment with wastewaters other than those generated by the regulated process, fixed alternative discharge limits may be derived by the Control Authority, as defined in § 403.12(a), or by the Industrial User with the written concurrence of the Control Authority. These alternative limits shall be applied to the mixed effluent. When deriving alternative categorical limits, the Control Authority or Industrial User shall calculate both an alternative daily maximum value using the daily maximum value(s) specified in the appropriate categorical Pretreatment Standard(s) and an alternative consecutive sampling day average value using the long-term average value(s) specified in the appropriate categorical Pretreatment Standard(s). The Industrial User shall comply with the alternative daily maximum and long-term average limits fixed by the Control Authority until the Control Authority modifies the limits or approves an Industrial User modification request. Modification is authorized whenever there is a material or significant change in the values used in the calculation to fix alternative limits for the regulated pollutant. An Industrial User must immediately report any such material or significant change to the Control Authority. Where appropriate new alternative categorical limits shall be calculated within 30 days.

(1) Alternative limit calculation. For purposes of these formulas, the "average daily flow" means a reasonable measure of the average daily flow for a 30-day period. For new sources, flows shall be estimated using projected values. The alternative limit for a specified pollutant will be derived by the use of either of the following formulas:

(i) Alternative Concentration Limit:

$$C_{T} = \begin{pmatrix} \sum_{i=1}^{N} C_{i} F_{i} \\ \sum_{i=1}^{N} F_{i} \end{pmatrix} \begin{pmatrix} F_{T} - F_{D} \\ F_{T} \end{pmatrix}$$

where

C_T= the alternative concentration limit for the combined wastestream.

C_i=the categorical Pretreatment Standard concentration limit for a pollutant in the regulated stream i.

F_i=the average daily flow (at least a 30day average) of stream i to the extent that it is regulated for such pollutant.

F_D=the average daily flow (at least a 30-day average) from boiler blowdown streams, non-contact cooling streams, sanitary wastestreams (where such streams are not regulated by a categorical Pretreatment Standard) and from any process wastestreams which were or could have been entirely exempted from categorical Pretreatment Standards pursuant to paragraph 8 of the NRDC v. Costle Consent Decree (12 ERC 1833) for one or more of the following reasons (see Appendix D):

(1) the pollutants of concern are not detectable in the effluent from the Industrial User (paragraph (8)(a)(iii));

(2) the pollutants of concern are present only in trace amounts and are neither causing nor likely to cause toxic effects (paragraph (8)(a)(iii));

(3) the pollutants of concern are present in amounts too small to be effectively reduced by technologies known to the Administrator (paragraph (8)(a)(iii)); or

(4) the wastestream contains only pollutants which are compatible with the POTW (paragraph (8)(b)(i)).

POTW (paragraph (8)(b)(i)).

F_T=the average daily flow (at least a 30-day average) through the combined treatment facility (includes F_I, F_D and unregulated streams).

N=the total number of regulated streams.

(ii) Alternative Mass Limit:

$$M_{T} = \begin{pmatrix} \sum_{i=1}^{N} M_{i} \\ \sum_{i=1}^{N} F_{i} \end{pmatrix}$$

where

M_T=the alternative mass limit for a pollutant in the combined wastestream.
 M_i=the categorical Pretreatment Standard mass limit for a pollutant in the regulated

stream i (the categorical pretreatment mass limit multiplied by the appropriate measure of production).

F_i= the average flow (at least a 30-day average) of stream i to the extent that it is regulated for such pollutant.

F_D= the average flow (at least a 30-day average) from boiler blowdown streams, non-contact cooling streams, sanitary wastestreams (where such streams are not regulated by a categorical Pretreafment Standard) and from any process wastestreams which were or could have been entirely exempted from categorical Pretreatment Standards pursuant to paragraph 8 of the NRDC v. Costle Consent Decree (12 ERC 1833) for one or more of the following reasons (see Appendix D):

(1) the pollutants of concern are not detectable in the effluent from the Industrial User (paragraph (8)(a)(iii));

 the pollutants of concern are present only in trace amounts and are neither causing nor likely to cause toxic effects (paragraph (8)(a)(iii));

(3) the pollutants of concern are present in amounts too small to be effectively reduced by technologies known to the Administrator (paragraph (8)(a)(iii)); or

(4) the wastestream contains only pollutants which are compatible with the POTW (paragraph (8)(b)(i)).

 F_T =the average flow (at least a 30-day average) through the combined treatment facility (includes F_I , F_D and unregulated streams).

N=the total number of regulated streams.

- (2) Alternate Limits Below Detection Limit. An alternative pretreatment limit may not be used if the alternative limit is below the analytical detection limit for any of the regulated pollutants.
- (3) Self-monitoring. Self-monitoring required to insure compliance with the alternative categorical limit shall be as follows:
- (i) The type and frequency of sampling, analysis and flow measurement shall be determined by reference to the self-monitoring requirements of the appropriate categorical Pretreatment Standard(s);
- (ii) Where the self-monitoring schedules for the appropriate Standards differ, monitoring shall be done according to the most frequent schedule;
- (iii) Where flow determines the frequency of self-monitoring in a categorical Pretreatment Standard, the sum of all regulated flows (F_i) is the flow which shall be used to determine self-monitoring frequency.

§ 403.7 Revision of categorical pretreatment standards to reflect POTW removal of pollutants.

This section provides the criteria and procedures to be used by a POTW in revising the pollutant discharge limits specified in categorical Pretreatment Standards to reflect Removal of pollutants by the POTW.

(a) Definitions. For the purpose of this section: (1) "Removal" shall mean a reduction in the amount of a pollutant in the POTW's effluent or alteration of the nature of a pollutant during treatment at the POTW. The reduction or alteration can be obtained by physical, chemical or biological means and may be the result of specifically designed POTW capabilities or it may be incidental to the operation of the treatment system. Removal as used in this subpart shall not mean dilution of a pollutant in the POTW. The demonstration of Removal shall consist of data which reflect the Removal achieved by the POTW for those specific pollutants of concern included on the list developed pursuant to section 307(a) of the Act. Each categorical Pretreatment Standard will specify whether or not a Removal Allowance may be granted for indicator or surrogate pollutants regulated in that Standard.

(2) "Consistent Removal" shall mean the average of the lowest 50 percent of the removals measured according to paragraph (d)(2) of this section. All sample data obtained for the measured pollutant during the time period prescribed in paragraph (d)(2) of this section must be reported and used in computing Consistent Removal. If a substance is measurable in the influent but not in the effluent, the effluent level may be assumed to be the limit of measurement, and those data may be used by the POTW at its discretion and subject to approval by the Approval Authority. If the substance is not measurable in the influent, the data may not be used. Where the number of samples with concentrations equal to or above the limit of measurement is between 8 and 12, the average of the lowest 6 removals shall be used. If there are less than 8 samples with concentrations equal to or above the limit of measurement, the Approval Authority may approve alternate means for demonstrating Consistent Removal. The term "measurement" refers to the ability of the analytical method or protocol to quantify as well as identify the presence of the substance in

(3) "Overflow" means the intentional or unintentional diversion of flow from the POTW before the POTW Treatment Plant.

(b) Revision of Categorical Pretreatment Standards to Reflect POTW Pollutant Removal. Any POTW receiving wastes from an Industrial User to which a categorical Pretreatment Standard applies may, subject to the conditions of this section, revise the discharge limits for a specific pollutant(s) covered in the categorical Pretreatment Standard applicable to that User. Revisions will only be made where the POTW demonstrates Consistent Removal of each pollutant for which the discharge limit in a categorical Pretreatment Standard is to be revised at a level which justifies the amount of revision to the discharge limit. In addition, revision of pollutant discharge limits in categorical Pretreatment Standards by a POTW may only be made provided that:

(1) Application. The POTW applies for, and receives, authorization from the Regional Administrator and/or Director to revise the discharge limits in Pretreatment Standards, for specific pollutants, in accordance with the requirements and procedures set out in this section and §§ 403.9 and 403.11; and

(2) POTW Pretreatment Programs. The POTW has a Pretreatment Program approved in accordance with §§ 403.8, 403.9, and 403.11; provided, however, a POTW may conditionally revise the discharge limits for specific pollutants, even though a Pretreatment Program has not been approved, in accordance with the following terms and conditions. These provision also govern the issuance of provisional authorizations under § 403.7(d)(2)(vii);

(i) All Industrial Users who wish to receive a conditional or provisional revision of categorical Pretreatment Standards must submit to the POTW the information required in § 403.12(b)(1)-(7) pertaining to the categorical Pretreatment Standard as modified by the conditional or provisional removal allowance, except that the compliance schedule required by § 403.12(b)(7) is not required where a provisional allowance is requested. The submission shall indicate what additional technology, if any, will be needed to 'comply with the categorical Pretreatment Standards as revised by the POTW;

(ii) The POTW must compile and submit data demonstrating removal in accordance with the requirements of paragraphs (d)(1)–(7) of this section. The POTW shall submit to the Approval Authority a removal report which comports with the signatory and certification requirements of § 403.12 (l) and (m). This report shall contain a certification by any of the persons specified in § 403.12(1) or by an

independent engineer containing the following statement: "I have personally examined and am familiar with the information submitted in the attached document, and I hereby certify under penalty of law that this information was obtained in accordance with the requirements of § 403.7(d). Moreover, based upon my inquiry of those individuals immediately responsible for obtaining the information reported herein. I believe that the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.";

(iii) The POTW must submit to the Approval Authority an application for pretreatment program approval meeting the requirements of §§ 403.8 and 403.9(a) or (b) in a timely manner, not to exceed the time limitation set forth in a compliance schedule for development of a pretreatment program included in the POTW's NPDES permit;

(iv) If a POTW grants conditional or provisional revision(s) and the Approval Authority subsequently makes a final determination, after notice and an opportunity for a hearing, that the POTW failed to comply with the conditions in paragraphs (b)(2)(ii) or (iii) of this section, or that its sludge use or disposal practices are not in compliance with the provisions of paragraph (b)(4) of this section, the revision shall be terminated by the Approval Authority and all Industrial Users to whom the revised discharge limits had been applied shall achieve compliance with the applicable categorical Pretreatment Standard(s) within a reasonable time (not to exceed the period of time prescribed in the applicable categorical Pretreatment Standard(s)) as specified by the Approval Authority. However, the revision(s) shall not be terminated where the POTW has not made a timely application for program approval if the POTW has made demonstrable progress towards and has demonstrated and continues to demonstrate an intention to submit an approvable pretreatment program as expeditiously as possible within an additional period of time, not to exceed one year, established by the Approval Authority;

(v) If a POTW grants conditional or provisional revision(s) and the POTW or Approval Authority subsequently makes a final determination, after notice and an opportunity for a hearing, that the Industrial User(s) failed to comply with conditions in paragraph (b)(2)(i) of this section, including in the case of a conditional revision, the dates specified in the compliance schedule required by

§ 403.12(b)(7), the revision shall be terminated by the POTW or the Approval Authority for the noncomplying Industrial Users and all noncomplying Industrial Users to whom the revised discharge limits had been applied shall achieve compliance with the applicable categorical Pretreatment Standard(s) within the time period specified in such Standard(s). The revision(s) shall not be terminated where a violation of the provisions of this subparagraph results from causes entirely outside of the control of the Industrial User or the Industrial User has demonstrated substantial compliance; and

(vi) The POTW shall submit to the Approval Authority by December 31 of each year the name and address of each Industrial User that has received a conditionally or provisionally revised discharge limit. If the revised discharge limit is revoked, the POTW must submit the information in paragraph (b)(2)(i) above to the Approval Authority;

(3) Compensation for overflow.
POTW's which at least once annually
Overflow untreated wastewater to
receiving waters may claim Consistent
Removal of a pollutant only by
complying with either paragraphs
(b)(3)(i) or (ii) below. However, this
subsection shall not apply where
Industrial User(s) can demonstrate that
Overflow does not occur between the
Industrial User(s) and the POTW
Treatment Plant;

(i) The Industrial User provides containment or otherwise ceases or reduces Discharges from the regulated processes which contain the pollutant for which an allowance is requested during all circumstances in which an Overflow event can reasonably be expected to occur at the POTW or at a sewer to which the Industrial User is connected. Discharges must cease or be reduced, or pretreatment must be increased, to the extent necessary to compensate for the removal not being provided by the POTW. Allowances under this provision will only be granted where the POTW submits to the

Approval Authority evidence that:
(A) All Industrial Users to which the POTW proposes to apply this provision have demonstrated the ability to contain or otherwise cease or reduce, during circumstances in which an Overflow event can reasonably be expected to occur. Discharges from the regulated processes which contain pollutants for which an allowance is requested;

(B) The POTW has identified circumstances in which an Overflow event can reasonably be expected to occur, and has a notification or other

viable plan to insure that Industrial Users will learn of an impending Overflow in sufficient time to contain, cease or reduce Discharging to prevent untreated Overflows from occurring. The POTW must also demonstrate that it will monitor and verify the data required in paragraph (b)(3)(i)(C) herein to insure that Industrial Users are containing, ceasing or reducing operations during POTW System Overflow; and

(C) All Industrial Users to which the POTW proposes to apply this provision have demonstrated the ability and commitment to collect and make available upon request by the POTW, State Director or EPA Regional Administrator daily flow reports or other data sufficient to demonstrate that all Discharges from regulated processes containing the pollutant for which the allowance is requested were contained, reduced or otherwise ceased, as appropriate, during all circumstances in which an Overflow event was reasonably expected to occur; or

(ii)(A) The Consistent Removal claimed is reduced pursuant to the following equation:

$$r_{c} = r_{m} = \frac{8760-Z}{8760}$$

Where:

r_m=POTW's Consistent Removal rate for that pollutant as established under paragraphs (a)(1) and (d)(2) of this section

r_c=removal corrected by the Overflow factor

Z=hours per year that Overflow occurred between the Industrial User(s) and the POTW Treatment Plant, the hours either to be shown in the POTW's current NPDES permit application or the hours, as demonstrated by verifiable techniques, that a particular Industrial User's Discharge Overflows between the Industrial User and the POTW Treatment Plant: and

(B)(1) After July 1, 1983, Consistent Removal may be claimed only where efforts to correct the conditions resulting in untreated Discharges by the POTW are underway in accordance with the policy and procedures set forth in "PRM 75-34" or "Program Guidance Memorandum-61" (same document) published on December 16, 1975 by EPA Office of Water Program Operations (WH-546). (See Appendix A.) Revisions to discharge limits in categorical Pretreatment Standards may not be made where efforts have not been committed to by the POTW to minimize pollution from Overflows. At minimum,

by July 1, 1983, the POTW must have completed the analysis required by PRM 75–34 and be making an effort to implement the plan.

(2) If, by July 1, 1983, a POTW has begun the PRM 75-34 analysis but due to circumstances beyond its control has not completed it, Consistent Removal, subject to the approval of the Approval Authority, may continue to be claimed according to the formula in paragraph (b)(3)(ii)(A) above so long as the POTW acts in a timely fashion to complete the analysis and makes an effort to implement the non-structural costeffective measures identified by the analysis; and so long as the POTW has expressed its willingness to apply, after completing the analysis, for a construction grant necessary to implement any other cost-effective Overflow controls identified in the analysis should federal funds become available, so applies for such funds, and proceeds with the required construction in an expeditious manner. In addition, Consistent Removal may, subject to the approval of the Approval Authority, continue to be claimed according to the formula in paragraph (b)(3)(ii)(A) above where the POTW has completed and the Approval Authority has accepted the analysis required by PRM 75-34 and the POTW has requested inclusion in its NPDES permit of an acceptable compliance schedule providing for timely implementation of cost-effective measures identified in the analysis. (In considering what is timely implementation, the Approval Authority shall consider the availability of funds. cost of control measures, and seriousness of the water quality problem.); and

(4) Compliance with applicable sludge requirements. Such revision will not contribute to the POTW's inability to comply with its NPDES permit or with the following statutory provisions and regulations or permits issued thereunder (or more stringent State or local regulations) as they apply to the sludge management methods being used: section 405 of the Clean Water Act; the Solid Waste Disposal Act (SWDA) (including Title II, more commonly referred to as the Resource Conservation Recovery Act (RCRA) and including State regulations contained in any State sludge management plan prepared pursuant to Subtitle D of SWDA)), the Clean Air Act and the Toxic Substances Control Act. The POTW will be authorized to revise discharge limits only for those pollutants that do not contribute to the violation of

its NPDES permit or any of the above

(c) POTW application for authorization to revise discharge limits. (1) Application for authorization to revise discharge limits for Industrial Users who are or in the future may be subject to categorical Pretreatment Standards, or approval of discharge limits conditionally or provisionally revised for Industrial Users by the POTW pursuant to paragraphs (b)(2) and (d)(2)(vii) shall be submitted by the POTW to the Approval Authority.
(2) Each POTW may submit such an

application no more than once per year

with respect to either:

(i) any categorical Pretreatment Standard promulgated in the prior 18

(ii) any new or modified facilities or production changes resulting in the Discharge of pollutants which were not previously discharged and which are subject to promulgated categorical Standards; or

(iii) any significant increase in Removal efficiency attributable to specific identifiable circumstances or corrective measures (such as improvements in operation and maintenance practices, new treatment or treatment capacity, or a significant change in the influent to the POTW

Treatment Plant).

(3) The Approval Authority may, however, elect not to review such application(s) upon receipt, in which case the POTW's conditionally or provisionally revised discharge limits will remain in effect until reviewed by the Approval Authority. This review may occur at any time in accordance with the procedures of § 403.11, but in no event later than the time of any pretreatment program approval or any NPDES permit reissuance thereafter.

(4) If the Consistent Removal claimed is based on an analytical technique other than the technique specified for the applicable categorical Pretreatment Standard, the Approval Authority may require the POTW perform additional

analyses.

(d) Contents of application to revise discharge limits. Requests for authorization to revise discharge limits in categorical Pretreatment Standards must be supported by the following information:

(1) List of Pollutants. A list of pollutants for which discharge limit

revisions are proposed.

(2) Consistent Removal Data. Influent and effluent operational data demonstrating Consistent Removal or other information, as provided for in paragraph (a)(2) of this section, which demonstrates Consistent Removal of the pollutants for which discharge limit revisions are proposed. This data shall meet the following requirements:

(i) Representative Data: Seasonal. The data shall be representative of yearly and seasonal conditions to which the POTW is subjected for each pollutant for which a discharge limit revision is proposed.

(ii) Representative Data: Quality and Quantity. The data shall be representative of the quality and quantity of normal effluent and influent flow if such data can be obtained. If such data are unobtainable, alternate data or information may be presented for approval to demonstrate Consistent Removal as provided for in paragraph

(a)(2) of this section.

(iii) Sampling Procedures: Composite. (A) The influent and effluent operational data shall be obtained through 24-hour flow-proportional composite samples. Sampling may be done manually or automatically, and discretely or continuously. For discrete sampling, at least 12 aliquots shall be composited. Discrete sampling may be flowproportioned either by varying the time interval between each aliquot or the volume of each aliquot. All composites must be flow-proportional to either stream flow at time of collection of influent aliquot or to the total influent flow since the previous influent aliquot. Volatile pollutant aliquots must be combined in the laboratory immediately before analysis.

(B)(1) Twelve samples shall be taken at approximately equal intervals throughout one full year. Sampling must be evenly distributed over the days of the week so as to include non-workdays as well as workdays. If the Approval Authority determines that this schedule will not be most representative of the actual operation of the POTW Treatment Plant, an alternative sampling schedule will be approved.

(2) In addition, upon the Approval Authority's concurrence, a POTW may utilize an historical data base amassed prior to the effective date of this section provided that such data otherwise meet the requirements of this paragraph. In order for the historical data base to be approved it must present a statistically valid description of daily, weekly and seasonal sewage treatment plant loadings and performance for at least

(C) Effluent sample collection need not be delayed to compensate for hydraulic detention unless the POTW elects to include detention time compensation or unless the Approval Authority requires detention time compensation. The Approval Authority may require that each effluent sample

be taken approximately one detention time later than the corresponding influent sample when failure to do so would result in an unrepresentative portrayal of actual POTW operation. The detention period is to be based on a 24-hour average daily flow value. The average daily flow used will be based upon the average of the daily flows during the same month of the previous

(iv) Sampling Procedures: Grab. Where composite sampling is not an appropriate sampling technique, a grab sample(s) shall be taken to obtain influent and effluent operational data. Collection of influent grab samples should preceed collection of effluent samples by approximately one detention period. The detention period is to be based on a 24-hour average daily flow value. The average daily flow used will be based upon the average of the daily flows during the same month of the previous year. Grab samples will be required, for example, where the parameters being evaluated are those, such as cyanide and phenol, which may not be held for any extended period because of biological, chemical or physical interactions which take place after sample collection and affect the results. A grab sample is an individual sample collected over a period of time not exceeding 15 minutes.

v) Analytical methods. The sampling referred to in paragraphs (d)(2)(i)-(iv) and (d)(5) of this section and an analysis of these samples shall be performed in accordance with the techniques prescribed in 40 CFR Part 136 and amendments thereto. Where 40 CFR Part 136 does not contain sampling or analytical techniques for the pollutant in question, or where the Administrator determines that the Part 136 sampling and analytical techniques are inappropriate for the pollutant in question, sampling and analysis shall be performed using validated analytical methods or any other applicable sampling and analytical procedures, including procedures suggested by the POTW or other parties, approved by the Administrator.

(vi) Calculation of removal. All data acquired under the provisions of this section must be submitted to the Approval Authority. Removal for a specific pollutant shall be determined either, for each sample, by measuring the difference between the concentrations of the pollutant in the influent and effluent of the POTW and expressing the difference as a percent of the influent concentration, or, where such data cannot be obtained, Removal may be demonstrated using other data

or procedures subject to concurrence by the Approval Authority as provided for in paragraph (a)(2) of this section.

(vii) Exception to sampling data requirement: provisional removal demonstration. For pollutants which are not currently being discharged (new or modified facilities, or production changes) application may be made by the POTW for provisional authorization to revise the applicable categorical Pretreatment Standard prior to initial discharge of the pollutant. Consistent Removal may be based provisionally on data from treatability studies or demonstrated removal at other treatment facilities where the quality and quantity of influent are similar. In calculating and applying for provisional removal allowances, the POTW must comply with the provisions of paragraphs (b)(1)-(4) of this section. Within 18 months after the commencement of Discharge of the pollutants in question, Consistent Removal must be demonstrated pursuant to the requirements of paragraphs (a)(2) and (d)(2)(i)-(vi) of this section.

- (3) List of industrial subcategories. A list of the industrial subcategories for which discharge limits in categorical Pretreatment Standards will be revised, including the number of Industrial Users in each such subcategory and an identification of which of the pollutants on the list prepared under paragraph. (d)(1) of this section are Discharged by each subcategory.
- (4) Calculation of revised discharge limits. Proposed revised discharge limits for each of the subcategories of Industrial Users identified in paragraph (d)(3) of this section calculated in the following manner:
- (i) The proposed revised discharge limit for a specified pollutant shall be derived by use of the following formula:

$$Y = \frac{x}{1-x}$$

where

- x=pollutant discharge limit specified in the applicable categorical Pretreatment Standard
- r=POTW's Consistent Removal rate for that pollutant as established under paragraphs (a)(2), (d)(2) and, if appropriate, (b)(3)(ii)(A) of this section. (percentage expressed as a decimal) Y=revised discharged limit for the

specified pollutant (expressed in same units as x)

(ii) In calculating revised discharge limits, such revision for POTW Removal of a specified pollutant shall be applied equally to all existing and new Industrial Users in an industrial subcategory subject to categorical Pretreatment Standards which Discharge that pollutant to the POTW.

(5) Data on sludge characteristics.
Data showing the concentrations and amounts in the POTW's sludge of the pollutants for which discharge limit revisions are proposed and for which EPA, the State or locality have published sludge disposal or use criteria applicable to the POTW's current method of sludge use or disposal. These data shall meet the following requirements.

(i) The data shall be obtained through a composite sample taken during the same sampling periods selected to measure Consistent POTW Removals in accordance with the requirements of paragraph (d)(2) of this section. Each composite sample will contain a minimum of 12 discrete samples taken at equal time intervals over a 24 hour period. Where a composite sample is not an appropriate sampling technique, grab samples shall be taken.

(ii) Sampling and analysis of the samples referred to in paragraph (d)(5)(i) of this section shall be performed in accordance with the sampling and analytical techniques described previously in paragraph (d)(2)(v) of this

(6) Description of sludge management. A specific description of the POTW's current methods of use or disposal of its sludge and data demonstrating that the current sludge use or disposal methods comply and will continue to comply with the requirements of paragraph (b)(4) of this section.

(7) Certification statement. The certification statement required by paragraph (b)(2)(ii) of this section stating that the pollutant Removals and associated revised discharged limits have been or will be calculated in accordance with this regulation and any guidelines issued by EPA under Section 304(g) of the Act.

(e) Procedure for authorizing modification of standards. (1) Application for authorization to revise National Pretreatment Standards shall comply with § 403.9(d) and paragraphs (c) and (d) of this section. Notice, public comment, and review by the Approval Authority shall comply with § 403.11.

(2) POTW's which have received a construction grant from funds authorized for any fiscal year beginning after September 30, 1978, will only be considered for authorization to modify National Standards after they have completed the analysis required by section 201(g)(5) of the Act and demonstrated that modification of the discharge limits in National Standards will not preclude the use of innovative or alternative technology. In addition, where sludge disposal or treatment technology is or will be acquired or constructed with construction grant funds, POTWs should refer to § 35.917(d)(6) and Appendix A of Part 35 of Title 40 of the Code of Federal Regulations to determine the funding eligibility of sludge disposal or treatment facilities.

(3) The Approval Authority shall, at such time as it elects to review the Submission under paragraph (c) of this section, or at the time of POTW pretreatment program approval or NPDES permit reissuance thereafter, authorize the POTW to revise Industrial User discharge limits, as submitted pursuant to paragraph (d)(4) of this section, which comply with the provisions of this section.

(4) Nothing in these regulations precludes an Industrial User or other interested party from assisting the POTW in preparing and presenting the information necessary to apply for authorization to revise categorical Pretreatment Standards.

(f) Continuation and withdrawal of authorization. (1) Monitoring and reporting of consistent removal. Following authorization to revise the discharge limits in Pretreatment Standards, the POTW shall continue to monitor and report on (at such frequencies and over such intervals as may be specified by the Regional Administrator, but in no case less than two times per year) the POTW's Removal capabilities for all pollutants for which authority to revise the Standards was granted. Such monitoring and reporting shall be in accordance with § 403.12 (i) and (j) pertaining to pollutant removal capability reports.

(2) Re-evaluation of revisions.

Approval of authority to revise
Pretreatment Standards will be reexamined whenever the POTWs NPDES
Permit is reissued, unless the Regional
Administrator determines the need to
re-evaluate the authority pursuant to
paragraph (f)(5) of this section. In order

to maintain a removal allowance, the POTW must comply with all federal, State and local Statutes, regulations and permits applicable to the POTWs selected method of sludge use or disposal. In addition, where Overflows of untreated waste by the POTW continue to occur the Regional Administrator may condition continued authorization to revise discharge limits upon the POTW performing additional analysis and/or implementing additional control measures as is consistent with EPA policy on POTW Overflows.

(3) Inclusion in POTW permit. Once authority to revise discharge limits for a specified pollutant is granted, the revised discharge limits for Industrial Users of the system as well as the Consistent Removal documented by the POTW for that pollutant and the other requirements of paragraph (b) of this section, shall be included in the POTW's NPDES Permit upon the earliest reissuance or modification (at or following Program approval) and shall become enforceable requirements of the

POTW's NPDES Permit.

(4) EPA review of state removal allowance approvals. Where the NPDES State has an approved pretreatment program, the Regional Administrator may agree, in the Memorandum of Agreement under 40 CFR 123.7, to waive the right to review and object to Submissions for authority to revise discharge limits under this section. Such an agreement shall not restrict the Regional Administrator's right to comment upon or object to permits issued to POTW's except to the extent permitted under 40 CFR 123.7(b)(3)(i)(D).

(5) Modification or withdrawal of revised limits.—(i) Notice to POTW. The Approval Authority shall notify the POTW if, on the basis of pollutant removal capability reports received pursuant to paragraph (f)(1) of this section or other information available to it, the Approval Authority determines:

(A) that one or more of the discharge limit revisions made by the POTW, or the POTW itself, no longer meets the requirements of this section, or

(B) that such discharge limit revisions are causing or significantly contributing to a violation of any conditions or limits contained in the POTW's NPDES Permit. A revised discharge limit is significantly contributing to a violation of the POTW's permit if it satisfies the definition set forth in § 40.33 (i) or (n).

(ii) Corrective action. If appropriate corrective action is not taken within a reasonable time, not to exceed 60 days unless the POTW or the affected Industrial Users demonstrate that a longer time period is reasonably

necessary to undertake the appropriate corrective action, the Approval Authority shall either withdraw such discharge limits or require modifications in the revised discharge limits.
(iii) Public notice of withdrawal or

modification. The Approval Authority shall not withdraw or modify revised discharge limits unless it shall first have notified the POTW and all Industrial Users to whom revised discharge limits have been applied, and made public, in writing, the reasons for such withdrawal or modification, and an opportunity is provided for a hearing. Following such notice and withdrawal or modification, all Industrial Users to whom revised discharge limits had been applied, shall be subject to the modified discharge limits or the discharge limits prescribed in the applicable categorical Pretreatment Standards, as appropriate, and shall achieve compliance with such limits within a reasonable time (not to exceed the period of time prescribed in the applicable categorical Pretreatment Standard(s) as may be specified by the Approval Authority.

(g) Removal allowances in State-run pretreatment programs under § 403.10(e). Where an NPDES State with an approved pretreatment program elects to implement a local pretreatment program in lieu of requiring the POTW to develop such a program (see § 403.10(e)) the POTW shall nevertheless be responsible for demonstrating Consistent Removal as provided for in this section. The POTW will not, however, be required to develop a pretreatment program as a precondition to obtaining approval of the allowance as required by paragraph (b)(2) of this section. Instead, before a removal allowance is approved, the State will be required to demonstrate that sufficient technical personnel and resources are available to ensure that modified discharge limits are correctly applied to affected Users and that Consistent Removal is maintained.

§ 403.8 POTW pretreatment programs: development by POTW.

(a) POTW's required to develop a pretreatment program. Any POTW (of combination of POTW's operated by the same authority) with a total design flow greater than 5 million gallons per day (mgd) and receiving from Industrial Users pollutants which Pass Through or Interfere with the operation of the POTW or are otherwise subject to Pretreatment Standards will be required to establish a POTW Pretreatment Program unless the NPDES State exercises its option to assume local responsibilities as provided for in § 403.10(e). The Regional Administrator

or Director may require that a POTW with a design flow of 5 mgd or less develop a POTW Pretreatment Program if he or she finds that the nature or volume of the industrial influent, treatment process upsets, violations of POTW effluent limitations. contamination of municipal sludge, or other circumstances warrant in order to prevent Interference with the POTW or Pass Through. In addition, any POTW desiring to modify categorical Pretreatment Standards for pollutants Removed by the POTW (as provided for by § 403.7) must have an approved POTW Pretreatment Program prior to obtaining final approval of a removal allowance. POTW's may receive conditional approval of a removal allowance, as provided for by § 403.7(b)(2), prior to obtaining POTW Pretreatment Program Approval. A POTW may receive § 403.7(g) authority to revise Pretreatment Standards without being required to develop a POTW Pretreatment Program where the NPDES State has assumed responsibility for running a local program in lieu of the POTW in accordance with § 403.10(e).

(b) Deadline for Program Approval. A POTW which meets the criteria of paragraph (a) of this section must receive approval of a POTW Pretreatment Program no later than 3 years after the reissuance or modification of its existing NPDES permit but in no case later than July 1, 1983. POTW's whose NPDES permits are modified under section 301(h) of the Act shall have a Pretreatment Program within less than 3 years as provided for in 40 CFR Part 125, Subpart G (44 FR 34783 (1979). The POTW Pretreatment Program shall meet the criteria set forth in paragraph (f) of this section and will be administered by the POTW to ensure compliance by Industrial Users with applicable Pretreatment Standards and Requirements.

(c) Incorporation of approved programs in permits. A POTW may develop an approvable POTW Pretreatment Program any time before the time limit set forth in paragraph (b) of this section. If (1) the POTW is located in a State which has an approved State permit program under section 402 of the Act and an approved State pretreatment program in accordance with § 403.10; or (2) the POTW is located in a State which does not have an approved permit program under section 402 of the Act; the POTW's NPDES Permit will be reissued or modified by the NPDEs State or EPA, respectively, to incorporate the approved Program conditions as enforceable conditions of the Permit. If

the POTW is located in an NPDES State which does not have an approved State pretreatment program, the approved POTW Pretreatment Program shall be incorporated into the POTW's NPDES Permit as provided for in § 403.10[d].

(d) Incorporation of compliance schedules in permits. If the POTW does not have an approved Pretreatment Program at the time the POTW's existing Permit is reissued or modified, the reissued or modified Permit will contain the shortest reasonable compliance schedule, not to exceed three years or July 1, 1983, whichever is sooner, for the approval of the legal authority, procedures and funding required by paragraph (f) of this section. Where the POTW is located in an NPDES State currently without authority to require a POTW Pretreatment Program, the Permit shall incorporate a modification or termination clause as provided for in § 403.10(d) and the compliance schedule shall be incorporated when the Permit is modified or reissued pursuant to such clause.

(e) Cause for Reissuance or Modification of Permits. Under the authority of section 402(b)(1)(C) of the Act, the Approval Authority may modify, or alternatively, revoke and reissue a POTW's Permit in order to:

(1) put the POTW on a compliance schedule for the development of a POTW Pretreatment Program where the addition of pollutants into a POTW by an Industrial User or combination of Industrial Users presents a substantial hazard to the functioning of the treatment works, quality of the receiving waters, human health, or the environment;

(2) coordinate the issuance of a section 201 construction grant with the incorporation into a permit of a compliance schedule for POTW Pretreatment Program;

(3) incorporate a modification of the permit approved under sections 301(h) or 301(i) of the Act:

(4) incorporate an approved POTW Pretreatment Program in the POTW permit; or

(5) incorporate a compliance schedule for the development of a POTW pretreatment program in the POTW permit.

(f) POTW pretreatment program requirements. A POTW Pretreatment Program shall meet the following requirements:

(1) Legal Authority. The POTW shall operate pursuant to legal authority enforceable in Federal, State or local courts, which authorizes or enables the POTW to apply and to enforce the requirements of sections 307 (b) and (c),

and 402(b)(8) of the Act and any regulations implementing those sections. Such authority may be contained in a statute, ordinance, or series of contracts or joint powers agreements which the POTW is authorized to enact, enter into or implement, and which are authorized by State law. At a minimum, this legal authority shall enable the POTW to:

(i) Deny or condition new or increased contributions of pollutants, or changes in the nature of pollutants, to the POTW by Industrial Users where such contributions do not meet applicable Pretreatment Standards and Requirements or where such contributions would cause the POTW to violate its NPDES permit;

(ii) Require compliance with applicable Pretreatment Standards and Requirements by Industrial Users;

(iii) Control, through permit, contract, order, or similar means, the contribution to the POTW by each Industrial User to ensure compliance with applicable Pretreatment Standards and Requirements;

(iv) Require (A) the development of a compliance schedule by each Industrial User for the installation of technology required to meet applicable Pretreatment Standards and Requirements and (B) the submission of all notices and self-monitoring reports from Industrial Users as are necessary to assess and assure compliance by Industrial Users with Pretreatment Standards and Requirements, including but not limited to the reports required in § 403.12;

(v) Carry out all inspection, surveillance and monitoring procedures necessary to determine, independent of information supplied by Industrial Users, compliance or noncompliance with applicable Pretreatment Standards and Requirements by Industrial Users. Representatives of the POTW shall be authorized to enter any premises of any Industrial User in which a Discharge source or treatment system is located or in which records are required to be kept under § 403.12(m) to assure compliance with Pretreatment Standards. Such authority shall be at least as extensive as the authority provided under section 308 of the Act;

(vi) (A) Obtain remedies for noncompliance by any Industrial User with any Pretreatment Standard and Requirement. All POTW's shall be able to seek injuctive relief for noncompliance by Industrial Users with Pretreatment Standards and Requirements. In cases where State law has authorized the municipality or POTW to pass ordinances or other local legislation, the POTW shall exercise such authorities in passing legislation to

seek and assess civil or criminal penalties for noncompliance by Industrial Users with Pretreatment Standards and Requirements. POTW's without such authorities shall enter into contracts with Industrial Users to assure compliance by Industrial Users with Pretreatment Standards and Requirements. An adequate contract will provide for liquidated damages for violation of Pretreatment Standards and Requirements and will include an agreement by the Industrial User to submit to the remedy of specific performance for breach of contract.

(B) Pretreatment Requirements which will be enforced through the remedies set forth in paragraph (f)(1)(vi)(A) will include but not be limited to, the duty to allow or carry out inspections, entry, or monitoring activities; any rules, regulations, or orders issued by the POTW; or any reporting requirements imposed by the POTW or these regulations. The POTW shall have authority and procedures (after informal notice to the discharger) immediately and effectively to halt or prevent any Discharge of pollutants to the POTW which reasonably appears to present an imminent endangerment to the health or welfare of persons. The POTW shall also have authority and procedures (which shall include notice to the affected Industrial Users and an opportunity to respond) to halt or prevent any Discharge to the POTW which presents or may present an endangerment to the environment or which threatens to interfere with the operation of the POTW. The Approval Authority shall have authority to seek judicial relief for noncompliance by Industrial Users when the POTW has acted to seek such relief but has sought a penalty which the Approval Authority finds to be insufficient. The procedures for notice to dischargers where the POTW is seeking ex parte temporary judicial injunctive relief will be governed by applicable state or federal law and not by this provision; and

(vii) Comply with the confidentiality requirements set forth in § 403.14.

(2) Procedures. The POTW shall develop and implement procedures to ensure compliance with the requirements of a Pretreatment Program. At a minimum, these procedures shall enable the POTW to:

(i) Identify and locate all possible Industrial Users which might be subject to the POTW Pretreatment Program. Any compilation, index or inventory of Industrial Users made under this paragraph shall be made available to the Regional Administrator or Director upon request;

(ii) Identify the character and volume of pollutants contributed to the POTW by the Industrial Users identified under § 403.8(f)(2)(i). This information shall be made available to the Regional Administrator or Director upon request;

(iii) Notify Industrial Users identified under § 403.8(f)(2)(i) of applicable Pretreatment Standards and any applicable requirements under section 204(b) and 405 of the Act and Subtitles C and D of the Resource Conservation and Recovery Act.

(iv) Receive and analyze selfmonitoring reports and other notices submitted by Industrial Users in accordance with the self-monitoring

requirements in § 403.12;

(v) Randomly sample and analyze the effluent from Industrial Users and conduct surveillance and inspection activities in order to identify, independent of information supplied by Industrial Users, occasional and continuing noncompliance with Pretreatment Standards. The results of these activities shall be made available to the Regional Administrator or Director upon request;

(vi) Investigate instances of noncompliance with Pretreatment Standards and Requirements, as indicated in the reports and notices required under § 403.12, or indicated by analysis, inspection, and surveillance activities described in paragraph (f)(2)(v) of this section. Sample taking and analysis and the collection of other information shall be performed with sufficient care to produce evidence admissible in enforcement proceedings or in judicial actions; and

(vii) Comply with the public participation requirements of 40 CFR Part 25 in the enforcement of National Pretreatment Standards. These procedures shall include provision for at least annually providing public notification, in the largest daily newspaper published in the municipality in which the POTW is located, of Industrial Users which, during the previous 12 months, were significantly violating applicable Pretreatment Standards or other Pretreatment Requirements. For the purposes of this provision, a significant violation is a violation which remains uncorrected 45 days after notification of noncompliance; which is part of a pattern of noncompliance over a twelve month period; which involves a failure to accurately report noncompliance; or which resulted in the POTW exercising its emergency authority under

§ 403.8(f)(1)(iv)(B).
(3) Funding. The POTW shall have sufficient resources and qualified personnel to carry out the authorities

and procedures described in paragraphs (f) (1) and (2) of this section. In some limited circumstances, funding and personnel may be delayed where (i) the POTW has adequate legal authority and procedures to carry out the Pretreatment Program requirements described in this section, and (ii) a limited aspect of the Program does not need to be implemented immediately (see § 403.9(b)).

§ 403.9 POTW pretreatment programs and/or authorization to revise pretreatment standards; submission for approval.

(a) Who Approves Program. A POTW requesting approval of a POTW Pretreatment Program shall develop a program description which includes the information set forth in paragraphs (b)(1)–(4) of this section. This description shall be submitted to the Approval Authority which will make a determination on the request for program approval in accordance with the procedures described in § 403.11.

(b) Contents of POTW program submission. The program description must contain the following information:

(1) A statement from the City Solicitor or a city official acting in a comparable capacity (or the attorney for those POTWs which have independent legal counsel) that the POTW has authority adequate to carry out the programs described in § 403.8. This statement shall:

(i) Identify the provision of the legal authority under § 403.8(f)(1) which provides the basis for each procedure

under § 403.8(f)(2);

(ii) Identify the manner in which the POTW will implement the program requirements set forth in § 403.8, including the means by which Pretreatment Standards will be applied to individual Industrial Users (e.g., by order, permit, ordinance, contract, etc.); and,

(iii) Identify how the POTW intends to ensure compliance with Pretreatment Standards and Requirements, and to enforce them in the event of noncompliance by Industrial Users;

(2) A copy of any statutes, ordinances, regulations, contracts, agreements, or other authorities relied upon by the POTW for its administration of the Program. This Submission shall include a statement reflecting the endorsement or approval of the local boards or bodies responsible for supervising and/or funding the POTW Pretreatment Program if approved;

(3) A brief description (including organization charts) of the POTW organization which will administer the Pretreatment Program. If more than one agency is responsible for administration

of the Program the responsible agencies should be identified, their respective responsibilities delineated, and their procedures for coordination set forth; and

(4) A description of the funding levels and full- and part-time manpower available to implement the Program;

(c) Conditional POTW program approval. The POTW may request conditional approval of the Pretreatment Program pending the acquisition of funding and personnel for certain elements of the Program. The request for conditional approval must meet the requirements set forth in paragraph (b) of this section except that the requirements of paragraph (b) may be relaxed if the Submission demonstrates that:

(1) A limited aspect of the Program does not need to be implemented immediately;

(2) The POTW had adequate legal authority and procedures to carry out those aspects of the Program which will not be implemented immediately; and

(3) Funding and personnel for the Program aspects to be implemented at a later date will be available when needed. The POTW will describe in the Submission the mechanism by which this funding will be acquired. Upon receipt of a request for conditional approval, the Approval Authority will establish a fixed date for the acquisition of the needed funding and personnel. If funding is not acquired by this date, the conditional approval of the POTW Pretreatment Program and any removal allowances granted to the POTW, may be modified or withdrawn.

(d) Content of removal allowance submission. The request for authority to revise categorical Pretreatment Standards must contain the information

required in § 403.7(d).

(e) Approval authority action. Any POTW requesting POTW Pretreatment Program approval shall submit to the Approval Authority three copies of the Submission described in paragraph (b), and, if appropriate, (d) of this section. Upon a preliminary determination that the Submission meets the requirements of paragraph (b) and, if appropriate, (d), of this section, the Approval Authority shall;

(1) Notify the POTW that the Submission has been received and is under review; and

(2) Commence the public notice and evaluation activities set forth in § 403.11.

(f) Notification where submission is defective. If, after review of the Submission as provided for in paragraph (e) of this section, the Approval Authority determines that the Submission does not comply with the

requirements of paragraphs (b) or (c), and, if appropriate, (d), of this section, the Approval Authority shall provide notice in writing to the applying POTW and each person who has requested individual notice. This notification shall identify any defects in the Submission and advise the POTW and each person who has requested individual notice of the means by which the POTW can comply with the applicable requirements of paragraphs (b), (c), and, if appropriate, (d) of this section.

(g) Consistency with water quality management plans. (1) In order to be approved the POTW Pretreatment Program shall be consistent with any approved water quality management plan developed in accordance with 40 CFR Parts 130, 131, as revised, where such 208 plan includes Management Agency designations and addresses pretreatment in a manner consistent with 40 CFR Part 403. In order to assure such consistency the Approval Authority shall solicit the review and comment of the appropriate 208 Planning Agency during the public comment period provided for in § 403.11(b)(1)(ii) prior to approval or disapproval of the Program.

(2) Where no 208 plan has been approved or where a plan has been approved but lacks Management Agency designations and/or does not address pretreatment in a manner consistent with this regulation, the Approval Authority shall nevertheless solicit the review and comment of the appropriate 208 planning agency.

§ 403.10 Development and submission of NPDES State pretreatment programs.

(a) Approval of State Programs. No State NPDES program shall be approved under section 402 of the Act after the effective date of these regulations unless it is determined to meet the requirements of paragraph (f) of this section. Notwithstanding any other provision of this regulation, a State will be required to act upon those authorities which it currently possesses before the approval of a State Pretreatment Program.

(b) Deadline for requesting approval. Any NPDES State with a permit program approved under section 402 of the Act prior to December 27, 1977, which requires modification to conform to the requirements set forth in paragraph (f) of this section will be required to submit a request for approval of a modified program (hereafter State Pretreatment Program approval) by March 27, 1979 unless an NPDES State must amend or enact a law to make required modifications, in which case the NPDES

State shall request State Pretreatment Program approval by March 27, 1980.

(c) Failure to request approval. The EPA shall exercise the authorities available to it to apply and enforce Pretreatment Standards and Requirements until the necessary implementing action is taken by the State. Failure of a State to seek approval of a State Pretreatment Program as provided for in paragraph (b) and failure of an approved State to administer its State Pretreatment Program in accordance with the requirements of this section constitutes grounds for withdrawal of NPDES program approval under section 402(c)(3) of the Act.

(d) Modification clause in POTW permits prior to submission deadline. (1) Before the submission deadline for State Pretreatment Program approval set forth in paragraph (b) of this section, any Permit issued to a POTW which meets the requirements of § 403.8(a) by an NPDES State without an approved State pretreatment program shall include a modification clause. This clause will require that such Permits be promptly modified or, alternatively, revoked and reissued after the submission deadline for State Pretreatment Program approval set forth in (b) of this section to incorporate into the POTW's Permit an approved POTW Pretreatment Program or a compliance schedule for the development of a POTW Pretreatment Program according to the requirements of § 403.8 (b) and (d) and § 403.12(h). The following language is an acceptable clause for the purposes of this subparagraph:

This permit shall be modified, or alternatively, revoked and reissued, by September 27, 1979 (or September 27, 1980, as appropriate) to incorporate an approved POTW Pretreatment Program or a compliance schedule for the development of a POTW Pretreatment Program as required under section 402(b)(8) of the Clean Water Act and implementing regulations or by the requirements of the approved State Pretreatment Program, as appropriate.

(2) All Permits subject to the requirements of paragraph (d)(1) of this section which do not contain the modification clause referred to in that paragraph will be subject to objection by EPA under section 402(d) of the Act as being outside the guidelines and requirements of the Act.

(3) Permits issued by an NPDES State after the Submission deadline for State Pretreatment Program approval (set forth in paragraph (b) of this section) shall contain conditions of an approved Pretreatment Program or a compliance schedule for developing such a program in accordance with § 403.8 (b) and (d) and § 403.12(h).

(e) State Program in lieu of POTW Program. Notwithstanding the provision of § 403.8(a), a State with an approved Pretreatment Program may assume responsibility for implementing the **POTW Pretreatment Program** requirements set forth in § 403.8(f) in lied of requiring the POTW to develop a Pretreatment Program. However, this does not preclude POTW's from independently developing Pretreatment Programs.

(f) State Pretreatment Program requirements. In order to be approved, a request for State Pretreatment Program Approval must demonstrate that the State Pretreatment Program has the

following elements:

(1) Legal authority. The Attorney General's Statement submitted in accordance with subparagraph (g)(1)(i) shall certify that the Director has authority under State law to operate and enforce the State Pretreatment Program to the extent required by this Part and by 40 CFR § 123.9. At a minimum, the Director shall have the authority to:

(i) Incorporate POTW Pretreatment Program conditions into permits issued to POTW's; require compliance by POTW's with these incorporated permit conditions; and require compliance by Industrial Users with Pretreatment

Standards:

(ii) Ensure continuing compliance by POTW's with pretreatment conditions incorporated into the POTW Permit through review of monitoring reports submitted to the Director by the POTW in accordance with § 403.12 and ensure continuing compliance by Industrial Users with Pretreatment Standards through the review of self-monitoring reports submitted to the POTW or to the Director by the Industrial Users in accordance with § 403.12;

(iii) Carry out inspection, surveillance and monitoring procedures which will determine, independent of information supplied by the POTW, compliance or noncompliance by the POTW with pretreatment conditions incorportated into the POTW Permit; and carry out inspection, surveillance and monitoring procedures which will determine, independent of information supplied by the Industrial User, whether the Industrial User is in compliance with

Pretreatment Standards;

(iv) Seek civil and criminal penalties. and injunctive relief, for noncompliance by the POTW with pretreatment conditions incorporated into the POTW Permit and for noncompliance with Pretreatment Standards by Industrial Users as set forth in § 403.8(f)(1)(vi). The Director shall have authority to seek judicial relief for noncompliance by Industrial Users even when the POTW

has acted to seek such relief (e.g., if the POTW has sought a penalty which the Director finds to be insufficient);

(v) Approve and deny requests for approval of POTW Pretreatment Programs submitted by a POTW to the Director:

(vi) Deny and recommend approval of (but not approve) requests for Fundamentally Different Factors variances submitted by Industrial Users in accordance with the criteria and procedures set forth in § 403.13; and

(vii) Approve and deny requests for authority to modify categorical Pretreatment Standards to reflect removals achieved by the POTW in accordance with the criteria and procedures set forth in §§ 403.7, 403.9

and 403.11.

(2) Procedures. The Director shall have developed procedures to carry out the requirements of sections 307 (b) and (c), and 402(b)(1), 402(b)(2), 402(b)(8), and 402(b)(9) of the Act. At a minimum, these procedures shall enable the

Director to:

(i) Identify POTW's required to develop Pretreatment Programs in accordance with § 403.8(a) and notify these POTW's of the need to develop a POTW Pretreatment Program. In the absence of a POTW Pretreatment Program, the State shall have procedures to carry out the activities set forth in § 403.8(f)(2);

(ii) Provide technical and legal assistance to POTW's in developing

Pretreatment Programs;

(iii) Develop compliance schedules for inclusion in POTW Permits which set forth the shortest reasonable time schedule for the completion of tasks needed to implement a POTW Pretreatment Program. The final compliance date in these schedules shall be no later than July 1, 1983;

(iv) Sample and analyze:

A) Influent and effluent of the POTW to identify, independent of information supplied by the POTW, compliance or noncompliance with pollutant removal levels set forth in the POTW permit (see § 403.7); and

(B) The contents of sludge from the POTW and methods of sludge disposal and use to identify, independent of information supplied by the POTW, compliance or noncompliance with requirements applicable to the selected

method of sludge management;

(v) Investigate evidence of violations of pretreatment conditions set forth in the POTW Permit by taking samples and acquiring other information as needed. This data acquisition shall be performed with sufficient care as to produce evidence admissible in an enforcement proceeding or in court;

(vi) Review and approve requests for approval of POTW Pretreatment Programs and authority to modify categorical Pretreatment Standards submitted by a POTW to the Director; and

(vii) Consider requests for **Fundamentally Different Factors** variances submitted by Industrial Users in accordance with the criteria and procedures set forth in § 403.13.

(3) Funding. The Director shall assure that funding and qualified personnel are available to carry out the authorities and procedures described in paragraphs (f)(1) and (2) of this section.

(g) Content of State Pretreatment Program Submission. The request for State Pretreatment Program approval

will consist of:

- (1) (i) A statement from the State Attorney General (or the Attorney for those State agencies which have independent legal counsel) that the laws of the State provide adequate authority to implement the requirements of this Part. The authorities cited by the Attorney General in this statement shall be in the form of lawfully adopted State statutes or regulations which shall be effective by the time of approval of the State Pretreatment Program; and
- (ii) Copies of all State statutes and regulations cited in the above statement;
- (iii) Notwithstanding paragraphs (g)(1)(i) and (ii) of this section, if the State has the statutory authority to implement the requirements of this Part, and if the State at the time of submission of this request has an approved NPDES Program, then regulations setting forth the requirements of this section need not be promulgated by the State if the Administrator finds that the State has submitted a complete description of procedures to administer its program in conformance with the requirements of this section. States without an approved NPDES program will be required to comply with the requirements of paragraphs (g)(1)(i) and (ii) of this section.
- (2) A description of the funding levels and full- and part-time personnel available to implement the program; and
- (3) Any modifications or additions to the Momorandum of Agreement (required by 40 CFR 123.6) which may be necessary for EPA and the State to implement the requirements of this Part.
- (h) EPA Action. Any approved NPDES State requesting State Pretreatment Program approval shall submit to the Regional Administrator three copies of the Submission described in paragraph (g) of this section. Upon a preliminary determination that the Submission

meets the requirements of paragraph (g) the Regional Administrator shall:

(1) Notify the Director that the Submission has been received and is under review: and

(2) Commence the program revision process set out in 40 CFR § 123.13. For purposes of that section all requests for approval of State Pretreatment Programs shall be deemed substantial program modifications. A comment period of at least 30 days and the opportunity for a hearing shall be afforded the public on all such proposed program revisions.

(i) Notification where submission is defective. If, after review of the Submission as provided for in paragraph (h) of this section, EPA determines that the Submission does not comply with the requirements of paragraphs (f) or (g) of this section EPA shall so notify the applying NPDES State in writing. This notification shall identify any defects in the Submission and advise the NPDES State of the means by which it can comply with the requirements of this Part.

§ 403.11 Approval Procedures for POTW **Pretreatment Programs and POTW Revision** of Categorical Pretreatment Standards.

The following procedures shall be adopted in approving or denying requests for approval of POTW Pretreatment Programs and revising Categorical Pretreatment Standards. including requests for authorization to grant conditional revised discharge limitations and provisional limitations:

(a) Deadline for review of submission. The Approval Authority shall have 90 days from the date of public notice of any Submission complying with the requirements of § 403.9(b) and, where removal allowance approval is sought, with §§ 403.7(d) and 403.9(d), to review the Submission. The Approval Authority shall review the Submission to determine compliance with the requirements of § 403.8(b) and (f), and, where removal allowance approval is sought, with § 403.7(a)-(e) and (g). The Approval Authority may have up to an additional 90 days to complete the evaluation of the Submission if the public comment period provided for in paragraph (b)(1)(ii) of this section is extended beyond 30 days or if a public hearing is held as provided for in paragraph (b)(2) of this section. In no event, however, shall the time for evaluation of the Submission exceed a total of 180 days from the date of public notice of a Submission meeting the requirements of § 403.9(b) and, in the case of removal allowance application, §§ 403.7(d) and 403.9(d).

(b) Public notice and opportunity for hearing. Upon receipt of a Submission the Approval Authority shall commence its review. Within 5 days after making a determination that a Submission meets the requirements of § 403.9(b), and, where removal allowance approval is sought, §§ 403.7(d) and 403.9(d), or at such later time under § 403.7(c) that the Approval Authority elects to review the removal allowance Submission, the Approval Authority shall:

(1) Issue a public notice of request for

approval of the Submission;

(i) This public notice shall be circulated in a manner designed to inform interested and potentially interested persons of the Submission. Procedures for the circulation of public notice shall include:

(A) Mailing notices of the request for approval of the Submission to designated 208 planning agencies, Federal and State fish, shellfish, and wildlife resource agencies; and to any other person or group who has requested individual notice, including those on appropriate mailing lists; and

(B) Publication of a notice of request for approval of the Submission in the largest daily newspaper within the jurisdiction(s) served by the POTW.

(ii) The public notice shall provide a period of not less than 30 days following the date of the public notice during which time interested persons may submit their written views on the Submission.

(iii) All-written comments submitted during the 30 day comment period shall be retained by the Approval Authority and considered in the decision on whether or not to approve the Submission. The period for comment may be extended at the discretion of the Approval Authority; and

(2) Provide an opportunity for the applicant, any affected State, any interested State or Federal agency, person or group of persons to request a public hearing with respect to the

Submission.

(i) This request for public hearing shall be filed within the 30 day (or extended) comment period described in paragraph (b)(1)(ii) of this section and shall indicate the interest of the person filing such request and the reasons why a hearing is warranted.

(ii) The Approval Authority shall hold a hearing if the POTW so requests. In addition, a hearing will be held if there is a significant public interest in issues relating to whether or not the Submission should be approved. Instances of doubt should be resolved in favor of holding the hearing.

(iii) Public notice of a hearing to consider a Submission and sufficient to inform interested parties of the nature of the hearing and the right to participate shall be published in the same newspaper as the notice of the original request for approval of the Submission under paragraph (b)(1)(i)(B) of this section. In addition, notice of the hearing shall be sent to those persons requesting individual notice.

(3) Whenever the approval authority elects to defer review of a submission which authorizes the POTW to grant conditional revised discharge limits under § 403.7(b)(2) and 403.7(c), the Approval Authority shall publish public notice of its election in accordance with paragraph (b)(1) of this section.

(c) Approval authority decision. At the end of the 30 day (or extended) comment period and within the 90 day (or extended) period provided for in paragraph (a) of this section, the Approval Authority shall approve or deny the Submission based upon the evaluation in paragraph (a) of this section and taking into consideration comments submitted during the comment period and the record of the public hearing, if held. Where the Approval Authority makes a determination to deny the request, the Approval Authority shall so notify the POTW and each person who has requested individual notice. This notification shall include suggested modifications and the Approval Authority may allow the requestor additional time to bring the Submission into compliance with applicable

requirements. (d) EPA objection to Director's decision. No POTW pretreatment program or authorization to grant removal allowances shall be approved by the Director if following the 30 day (or extended) evaluation period provided for in paragraph (b)(1)(ii) of this section and any hearing held pursuant to paragraph (b)(2) of this section the Regional Administrator sets forth in writing objections to the approval of such Submission and the reasons for such objections. A copy of the Regional Administrator's objections shall be provided to the applicant, and each person who has requested individual notice. The Regional Administrator shall provide an opportunity for written comments and may convene a public hearing on his or her objections. Unless retracted, the Regional Administrator's objections shall constitute a final ruling to deny approval of a POTW pretreatment program or authorization to grant removal allowances 90 days after the date the objections are issued.

(e) Notice of decision. The Approval Authority shall notify those persons who submitted comments and participated in the public hearing, if held, of the

approval or disapproval of the Submission. In addition, the Approval Authority shall cause to be published a notice of approval or disapproval in the same newspapers as the original notice of request for approval of the Submission was published. The Approval Authority shall identify in any notice of POTW Pretreatment Program approval any authorization to modify categorical Pretreatment Standards which the POTW may make, in accordance with § 403.7, for removal of pollutants subject to Pretreatment Standards.

(f) Public access to submission. The Approval Authority shall ensure that the Submission and any comments upon such Submission are available to the public for inspection and copying.

§ 403.12 Reporting requirements for POTW's and industrial users.

(a) Definition. The term "Control Authority" as it is used in this section refers to: (1) The POTW if the POTW's Submission for its pretreatment program (§ 403.3(t)(1)) has been approved in accordance with the requirements of § 403.11; or (2) the Approval Authority if the Submission has not been approved.

(b) Reporting requirement for industrial users upon effective date of categorical pretreatment standardbaseline report. Within 180 days after the effective date of a categorical Pretreatment Standard, or 180 days after the final administrative decision made upon a category determination submission under § 403.6(a)(4), whichever is later, existing Industrial Users subject to such categorical Pretreatment Standards and currently discharging to or scheduled to discharge to a POTW shall be required to submit to the Control Authority a report which contains the information listed in paragraph (b)(1)-(7) of this section. Where reports containing this information already have been submitted to the Director or Regional Administrator in compliance with the requirements of 40 CFR 128.140(b), the Industrial user will not be required to submit this information again. New sources shall be required to submit to the Control Authority a report which contains the information listed in

paragraphs (b)(1)-(5) of this section:
(1) Identifying information. The User shall submit the name and address of the facility including the name of the

operator and owners;

(2) Permits. The User shall submit a list of any environmental control permits held by or for the facility;

(3) Description of operations. The User shall submit a brief description of the nature, average rate of production,

and Standard Industrial Classification of the operation(s) carried out by such Industrial User. This description should include a schematic process diagram which indicates points of Discharge to the POTW from the regulated processes.

(4) Flow measurement. The User shall submit information showing the measured average daily and maximum daily flow, in gallons per day, to the POTW from each of the following:

(i) regulated process streams; and

(ii) other streams as necessary to allow use of the combined wastestream formula of § 403.6(e). (See paragraph (b)(5)(v) of this section.)

The Control Authority may allow for verifiable estimates of these flows where justified by cost or feasibility considerations.

(5) Measurement of Pollutants. (i) The user shall identify the Pretreatment Standards applicable to each regulated

process;

(ii) In addition, the User shall submit the results of sampling and analysis identifying the nature and concentration (or mass, where required by the Standard or Control Authority) of regulated pollutants in the Discharge from each regulated process. Both daily maximum and average concentration (or mass, where required) shall be reported. The sample shall be representative of daily operations;

(iii) Where feasible, samples must be obtained through the flow-proportional composite sampling techniques specified in the applicable categorical Pretreatment Standard. Where composite sampling is not feasible, a

grab sample is acceptable;

(iv) Where the flow of the stream being sampled is less than or equal to 950,000 liters/day (approximately 250,000 gpd), the User must take three samples within a two-week period. Where the flow of the stream being sampled is greater than 950,000 liters/day (approximately 250,000 gpd), the User must take six samples within a two-week period;

(v) Samples should be taken immediately downstream from pretreatment facilities if such exist or immediately downstream from the regulated process if no pretreatment exists. If other wastewaters are mixed with the regulated wastewater prior to pretreatment the User should measure the flows and concentrations necessary to allow use of the combined wastestream formula of § 403.6(e) in order to evaluate compliance with the Pretreatment Standards. Where an alternate concentration or mass limit has been calculated in accordance with § 403.6(e) this adjusted limit along with

supporting data shall be submitted to the Control Authority;

(vi) Sampling and analysis shall be performed in accordance with the techniques prescribed in 40 CFR Part 136 and amendments thereto. Where 40 CFR Part 136 does not contain sampling or analytical techniques for the pollutant in question, or where the Administrator determines that the Part 136 sampling and analytical techniques are inappropriate for the pollutant in question, sampling and analysis shall be performed by using validated analytical methods or any other applicable sampling and analytical procedures, including procedures suggested by the POTW or other parties, approved by the Administrator:

(vii) The Control Authority may allow the submission of a baseline report which utilizes only historical data so long as the data provides information sufficient to determine the need for industrial pretreatment measures;

(viii) The baseline report shall indicate the time, date and place, of sampling, and methods of analysis, and shall certify that such sampling and analysis is representative of normal work cycles and expected pollutant Discharges to the POTW;

(6) Certification. A statement, reviewed by an authorized representative of the Industrial User (as defined in subparagraph (k) of this section) and certified to by a qualified professional, indicating whether Pretreatment Standards are being met on a consistent basis, and, if not, whether additional operation and maintenance (O and M) and/or additional pretreatment is required for the Industrial User to meet the Pretreatment Standards and Requirements; and

(7) Compliance Schedule. If additional pretreatment and/or O and M will be required to meet the Pretreatment Standards; the shortest schedule by which the Industrial User will provide such additional pretreatment and/or O and M. The completion date in this schedule shall not be later than the compliance date established for the applicable Pretreatment Standard.

(i) Where the Industrial User's categorical Pretreatment Standard has been modified by a removal allowance (§ 403.7), the combined wastestream formula (§ 403.6(e)), and/or a Fundamentally Different Factors variance (§ 403.13) at the time the User submits the report required by paragraph (b) of this section, the information required by paragraphs (b)(6) and (7) of this section shall pertain to the modified limits.

(ii) If the categorical Pretreatment Standard is modified by a removal allowance (§ 403.7), the combined wastestream formula (§ 403.6(e)), and/or a Fundamentally Different Factors variance (§ 403.13) after the User submits the report required by paragraph (b) of this section, any necessary amendments to the information requested by paragraphs (b)(6) and (7) of this section shall be submitted by the User to the Control Authority within 60 days after the modified limit is approved.

(c) Compliance Schedule for Meeting Categorical Pretreatment Standards.

The following conditions shall apply to the schedule required by paragraph

(b)(7) of this section:

(1) The schedule shall contain increments of progress in the form of dates for the commencement and completion of major events leading to the construction and operation of additional pretreatment required for the Industrial User to meet the applicable categorical Pretreatment Standards (e.g., hiring an engineer, completing preliminary plans, completing final plans, executing contract for major components, commencing construction, completing construction, etc.).

(2) No increment referred to in paragraph (c)(1) of this section shall

exceed 9 months.

(3) Not later than 14 days following each date in the schedule and the final date for compliance, the Industrial User shall submit a progress report to the Control Authority including, at a minimum, whether or not it complied with the increment of progress to be met on such date and, if not, the date on which it expects to comply with this increment of progress, the reason for delay, and the steps being taken by the Industrial User to return the construction to the schedule established. In no event shall more than 9 months elapse between such progress reports to the Control Authority.

(d) Report on compliance with categorical pretreatment standard deadline. Within 90 days following the date for final compliance with applicable categorical Pretreatment Standards or in the case of a New Source following commencement of the introduction of wastewater into the POTW, any Industrial User subject to Pretreatment Standards and Requirements shall submit to the Control Authority a report indicating the nature and concentration of all pollutants in the Discharge from the regulated process which are limited by Pretreatment Standards and Requirements and the average and maximum daily flow for these process

units in the Industrial User which are limited by such Pretreatment Standards and Requirements. The report shall state whether the applicable Pretreatment Standards or Requirements are being met on a consistent basis and, if not, what additional O and M and/or pretreatment is necessary to bring the Industrial User into compliance with the applicable Pretreatment Standards or Requirements. This statement shall be signed by an authorized representative of the Industrial User, as defined in paragraph (k) of this section, and certified to by a qualified professional.

(e) Periodic reports on continued compliance. (1) Any Industrial User subject to a categorical Pretreatment Standard, after the compliance date of such Pretreatment Standard, or, in the case of a New Source, after commencement of the discharge into the POTW, shall submit to the Control Authority during the months of June and December, unless required more frequently in the Pretreatment Standard or by the Control Authority or the Approval Authority, a report indicating the nature and concentration of pollutants in the effluent which are limited by such categorical Pretreatment Standards. In addition, this report shall include a record of measured or estimated average and maximum daily flows for the reporting period for the Discharge reported in paragraph (b)(4) of this section except that the Control Authority may require more detailed reporting of flows. At the discretion of the Control Authority and in consideraton of such factors as local high or low flow rates, holidays, budget cycles, etc., the Control Authority may agree to alter the months during which the above reports are to be submitted.

(2) Where the Control Authority has imposed mass limitations on Industrial Users as provided for by § 403.6(d), the report required by paragraph (e)(1) of this section shall indicate the mass of pollutants regulated by Pretreatment Standards in the Discharge from the

Industrial User.

(f) Notice of slug loading. The Industrial User shall notify the POTW immediately of any slug loading, as defined by § 403.5(b)(4), by the

Industrial User.

(g) Monitoring and analysis to demonstrate continued compliance. The reports required in paragraphs (b)(5), (d), and (e) of this section shall contain the results of sampling and analysis of the Discharge, including the flow and the nature and concentration, or production and mass where requested by the Control Authority, of pollutants contained therein which are limited by the applicable Pretreatment Standards.

The frequency of monitoring shall be prescribed in the applicable Pretreatment Standard. All analyses shall be performed in accordance with procedures established by the Administrator pursuant to section 304(g) of the Act and contained in 40 CFR Part 136 and amendments thereto or with any other test procedures approved by the Administrator. Sampling shall be performed in accordance with the techniques approved by the Administrator, Where 40 CFR Part 136 does not include sampling or analytical techniques for the pollutants in question, or where the Administrator determines that the Part 136 sampling and analytical techniques are inappropriate for the pollutant in question, sampling and analyses shall be performed using validated analytical methods or any other sampling and analytical procedures, including procedures suggested by the POTW or other parties, approved by the Administrator.

(h) Compliance schedule for POTW's. The following conditions and reporting requirements shall apply to the compliance schedule for development of an approvable POTW Pretreatment Program required by § 403.8.

(1) The schedule shall contain increments of progress in the form of dates for the commencement and completion of major events leading to the development and implementation of a POTW Pretreatment Program (e.g., acquiring required authorities, developing funding mechanisms, acquiring equipment);

(2) No increment referred to in paragraph (h)(1) of this section shall

exceed nine months;

(3) Not later than 14 days following each date in the schedule and the final date for compliance, the POTW shall submit a progress report to the Approval Authority including, as a minimum, whether or not it complied with the increment of progress to be met on such date and, if not, the date on which it expects to comply with this increment of progress, the reason for delay, and the steps taken by the POTW to return to the schedule established. In no event shall more than nine months elapse between such progress reports to the Approval Authority.

(i) Initial POTW report on compliance with approved removal allowance. A POTW which has received authorization to modify categorical Pretreatment Standards for pollutants removed by the POTW in accordance with the requirements of § 403.7 must submit to the Approval Authority within 60 days after the effective date of a Pretreatment Standard for which authorization to modify has been approved, a report.

which contains the information required by §§ 403.7(d)(2), 403.7(d)(5) and 403.7(d)(6). A minimum of one sample per month during the reporting period is required.

(j) Periodic reports by POTW to demonstrate continued compliance with removal allowance. The reports referred to in paragraph (i) of this section will be submitted to the Approval Authority at 6-month intervals beginning with the submission of the initial report referred to in paragraph (i) of this section unless required more frequently by the Approval Authority.

(k) Signatory requirements for industrial user reports. The reports required by paragraphs (b), (d), and (e), of this section must be signed by an authorized representative of the Industrial User. An authorized

representative may be:

(1) A principal executive officer of at least the level of vice president, if the Industrial User submitting the reports required by paragraphs (b), (d) and (e) of this section is a corporation.

(2) A general partner or proprietor if the Industrial User submitting the report required by paragraphs (b), (d) and (e) of this section is a partnership or sole

proprietorship respectively.

(3) A duly authorized representative of the individual designated in subparagraph (1) or (2) of this paragraph if such representative is responsible for the overall operation of the facility from which the Indirect Discharge originates.

(l) Signatory requirements for POTW reports. Reports submitted to the Approval Authority by the POTW in accordance with paragraphs (h), (i) and (j) of this section must be signed by a principal executive officer, ranking elected official or other duly authorized employee if such employee is responsible for overall operation of the

(m) Provisions governing fraud and false statements. The reports required by paragraphs (b), (d), (e), (h), (i) and (j) of this section shall be subject to the provisions of 18 U.S.C. section 1001 relating to fraud and false statements and the provisions of section 309(c)(2) of the Act governing false statements, representations or certifications in reports required under the Act.

n) Record-keeping requirements. (1) Any Industrial User and POTW subject to the reporting requirements established in this section shall maintain records of all information resulting from any monitoring activities required by this section. Such records shall include for all samples:

(i) The date, exact place, method, and time of sampling and the names of the person or persons taking the samples;

- (ii) The dates analyses were performed;
- (iii) Who performed the analyses; (iv) The analytical techniques/ methods use; and
 - (v) The results of such analyses.
- 2) Any Industrial User or POTW subject to the reporting requirements established in this section shall be required to retain for a minimum of 3 years any records of monitoring activities and results (whether or not such monitoring activities are required by this section) and shall make such records available for inspection and copying by the Director and the Regional Administrator (and POTW in the case of an Industrial User). This period of retention shall be extended during the course of any unresolved litigation regarding the Industrial User or POTW or when requested by the Director or the Regional Administrator.
- (3) Any POTW to which reports are submitted by an Industrial User pursuant to paragraphs (b), (d), and (e) of this section shall retain such reports for a minimum of 3 years and shall make such reports available for inspection and copying by the Director and the Regional Administrator. This period of retention shall be extended during the course of any unresolved litigation regarding the discharge of pollutants by the Industrial User or the operation of the POTW Pretreatment Program or when requested by the Director or the Regional Administrator.

§ 403.13 Variances from categorical pretreatment standards for fundamentally different factors.

(a) Definition. The term "Requester" means an Industrial User or a POTW or other interested person seeking a variance from the limits specified in a categorical Pretreatment Standard.

(b) Purpose and scope. In establishing categorical Pretreatment Standards for existing sources, the EPA will take into account all the information it can collect, develop and solicit regarding the factors relevant to pretreatment standards under section 307(b). In some cases, information which may affect these Pretreatment Standards will not be available or, for other reasons, will not be considered during their development. As a result, it may be necessary on a case-by-case basis to adjust the limits in categorical Pretreatment Standards, making them either more or less stringent, as they apply to a certain Industrial User within an industrial category or subcategory. This will only be done if data specific to that Industrial User indicates it presents factors fundamentally different from those considered by EPA in developing

the limit at issue. Any interested person believing that factors relating to an Industrial User are fundamentally different from the factors considered during development of a categorical Pretreatment Standard applicable to that User and further, that the existence of those factors justifies a different discharge limit from that specified in the applicable categorical Pretreatment Standard, may request a fundamentally different factors variance under this section or such a variance request may be initiated by the EPA.

(c) Criteria.—(1) General criteria. A request for a variance based upon fundamentally different factors shall be approved only if:

(i) There is an applicable categorical Pretreatment Standard which specifically controls the pollutant for which alternative limits have been requested; and

(ii) Factors relating to the discharge controlled by the categorical Pretreatment Standard are fundamentally different from the factors considered by EPA in establishing the Standards; and

(iii) The request for a variance is made in accordance with the procedural requirements in paragraphs (g) and (h) of this section.

(2) Criteria applicable to less stringent limits. A variance request for the establishment of limits less stringent than required by the Standard shall be approved only if:

(i) The alternative limit requested is no less stringent than justified by the fundamental difference;

(ii) The alternative limit will not result in a violation of prohibitive discharge standards prescribed by or established under § 403.5:

under § 403.5;
(iii) The alternative limit will not result in a non-water quality environmental impact (including energy requirements) fundamentally more adverse than the impact considered during development of the Pretreatment Standards; and

(iv) Compliance with the Standards (either by using the technologies upon which the Standards are based or by using other control alternatives) would result in either:

(A) A removal cost (adjusted for inflation) wholly out of proportion to the removal cost considered during development of the Standards; or

(B) A non-water quality environmental impact (including energy requirements) fundamentally more adverse than the impact considered during development of the Standards.

(3) Criteria applicable to more stringent limits. A variance request for the establishment of limits more stringent than required by the Standards shall be approved only if:

 (i) The alternative limit request is no more stringent than justified by the fundamental difference; and

(ii) Compliance with the alternative limit would not result in either:

(A) A removal cost (adjusted for inflation) wholly out of proportion to the removal cost considered during development of the Standards; or

(B) A non-water quality environmental impact (including energy requirements) fundamentally more adverse than the impact considered during development of the Standards.

(d) Factors considered fundamentally different. Factors which may be considered fundamentally different are:

(1) The nature or quality of pollutants contained in the raw waste load of the User's process wastewater:

(2) The volume of the User's process wastewater and effluent discharged;

(3) Non-water quality environmental impact of control and treatment of the User's raw waste load;

(4) Energy requirements of the application of control and treatment technology;

(5) Age, size, land availability, and configuration as they relate to the User's equipment or facilities; processes employed; process changes; and engineering aspects of the application of control technology;

(6) Cost of compliance with required control technology.

(e) Factors which will not be considered fundamentally different. A variance request or portion of such a request under this section may not be granted on any of the following grounds:

(1) The feasibility of installing the required waste treatment equipment within the time the Act allows:

(2) The assertion that the Standards cannot be achieved with the appropriate waste treatment facilities installed, if such assertion is not based on factors listed in paragraph (d) of this section;

(3) The User's ability to pay for the required waste treatment; or

(4) The impact of a Discharge on the quality of the POTW's receiving waters.

(f) State or local law. Nothing in this section shall be construed to impair the right of any state or locality under section 510 of the Act to impose more stringent limitations than required by Federal law.

(g) Application deadline.

(1) Requests for a variance and supporting information must be submitted in writing to the Director or to the Enforcement Division Director, as appropriate.

(2) In order to be considered, request for variances must be submitted within

180 days after the effective date of the categorical Pretreatment Standard unless the User has requested a categorical determination pursuant to

§ 403.6(a).

(3) Where the User has requested a catergorical determination pursuant to § 403.6(a), the User may elect to await the results of the category determination before submitting a variance request under this section. Where the User so elects, he or she must submit the variance request within 30 days after a final decision has been made on the categorical determination pursuant to § 403.6(a)(4).

(h) Contents of submission. Written Submissions for variance request, whether made to the Enforcement Division Director or to the Director must

include:

(1) The name and address of the person making the request;

(2) Identification of the interest of the Requester which is affected by the categorical Pretreatment Standard for which the variance is requested;

(3) Identification of the POTW currently receiving the waste from the Industrial User for which alternative discharge limits are requested;

(4) Identification of the categorical Pretreatment Standards which are applicable to the Industrial User;

(5) A list of each pollutant or pollutant parameter for which an alternative discharge limit is sought;

(6) The alternative discharge limits proposed by the Requester for each pollutant or pollutant parameter identified in item (5) of this paragraph;

(7) A description of the Industrial User's existing water pollution control

facilities;

(8) A schematic flow representation of the Industrial User's water system including water supply, process wastewater systems, and points of .

Discharge; and

- (9) A Statement of facts clearly establishing why the variance request should be approved, including detailed support data, documentation, and evidence necessary to fully evaluate the merits of the request, e.g., technical and economic data collected by the EPA and used in developing each pollutant discharge limit in the Pretreatment Standard.
- (i) Deficient requests. The **Enforcement Division Director or** Director will only act on written requests for variances that contain all of the information required. Persons who have made incomplete Submissions will be notified by the Enforcement Division Director or Director that their requests are deficient and unless the time period is extended, will be given up to 30 days

to correct the deficiency. If the deficiency is not corrected within the time period allowed by the Enforcement Division Director or the Director, the request for a variance shall be denied.

(i) Public notice. Upon receipt of a complete request, the Director or **Enforcement Division Director will** provide notice of receipt, opportunity to review the submission, and opportunity to comment.

(1) The public notice shall be circulated in a manner designed to inform interested and potentially interested persons of the request. Procedures for the circulation of public notice shall include mailing notices to:

(i) The POTW into which the Industrial User requesting the variance

discharges;

(ii) Adjoining States whose waters

may be affected: and

(iii) Designated 208 planning agencies, Federal and State fish, shellfish and wildlife resource agencies; and to any other person or group who has requested individual notice, including those on appropriate mailing lists.

(2) The public notice shall provide for a period not less than 30 days following the date of the public notice during which time interested persons may review the request and submit their written views on the request.

(3) Following the comment period, the **Director or Enforcement Division** Director will make a determination on the request taking into consideration any comments received. Notice of this final decision shall be provided to the requestor (and the Industrial User for which the variance is requested if different), the POTW into which the Industrial User discharges and all persons who submitted comments on the request.

(k) Review of requests by state. (1) Where the Director finds that fundamentally different factors do not exist, he may deny the request and notify the requester (and Industrial User where they are not the same) and the POTW of the denial.

(2) Where the director finds that fundamentally different factors do exist, he shall forward the request, and a recommendation that the request be approved, to the Enforcement Division Director.

(1) Review of requests by EPA. (1) Where the Enforcement Division Director finds that fundamentally different factors do not exist, he shall deny the request for a variance and send a copy of his determination to the Director, to the POTW, and to the Requester (and to the Industrial User, where they are not the same).

(2) Where the Enforcement Division Director finds that fundamentally different factors do exist, and that a partial or full variance is justified, he will approve the variance. In approving the variance, the Enforcement Division Director will:

(i) Prepare recommended alternative discharge limits for the Industrial User either more or less stringent than those prescribed by the applicable categorical Pretreatment Standard to the extent warranted by the demonstrated fundamentally different factors;

(ii) Provide the following information

in his written determination:

(A) the recommended alternative discharge limits for the Industrial User concerned:

(B) the rationale for the adjustment of the Pretreatment Standard (including the **Enforcement Division Director's reasons** for recommending that a fundamentally different factor variance be granted) and an explanation, of how the Enforcement Division Director's recommended alternative discharge limits were derived:

(C) the supporting evidence submitted to the Enforcement Division Director;

(D) other information considered by

the Enforcement Division Director in developing the recommended alternative discharge limits;

(iii) Notify the Director and the POTW

of his or her determination; and

(iv) Send the information described in paragraphs (1)(2) (i) and (ii) above to the Requestor (and to the Industrial User where they are not the same).

(m) Request for hearing. (1) Within 30 days following the date of receipt of notice of the Enforcement Division Director's decision on a variance request, the Requester or any other interested person may submit a petition to the Regional Administrator for a hearing to reconsider or contest the decision. If such a request is submitted by a person other than the Industrial User the person shall simultaneously serve a copy of the request on the Industrial User.

(2) If the Regional Administrator declines to hold a hearing and the Regional Administrator affirms the **Enforcement Division Director's** findings, the Requester may submit a petition for a hearing to the Administrator within 30 days of the Regional Administrator's decision.

§ 403.14 Confidentiality.

(a) EPA authorities. In accordance with 40 CFR Part 2, any information submitted to EPA pursuant to these regulations may be claimed as confidential by the submitter. Any such claim must be asserted at the time of submission in the manner prescribed on the application form or instructions, or, in the case of other submissions, by stamping the words "confidential business information" on each page containing such information. If no claim is made at the time of submission, EPA may make the information available to the public without further notice. If a claim is asserted, the information will be treated in accordance with the procedures in 40 CFR Part 2 (Public Information).

(b) Effluent data. Information and data provided to the Control Authority pursuant to this part which is effluent data shall be available to the public

without restriction.

(c) State or POTW. All other information which is submitted to the State or FOTW shall be available to the public at least to the extent provided by 40 CFR § 2.302.

§ 403.15 Net/Gross calculation.

Categorical Pretreatment Standards may be adjusted to reflect the presence of pollutants in the Industrial Users' intake water in accordance with the provisions of paragraph (a)-(d) below:

- (a) Application deadline and contents. Any Industrial User wishing to obtain a credit for intake pollutants must make application therefore within 60 days after the effective date of the applicable categorical Pretreatment Standard. Application shall be made to the appropriate Enforcement Division Director. Upon request of the Industrial User, the applicable Standard will be calculated on a "net" basis, i.e., adjusted to reflect credit for pollutants in the intake water, if the User demonstrates that:
- (1) Its intake water is drawn from the same body of water into which the discharge from its publicity owned treatment works is made;

(2) The pollutants present in the intake water will not be entirely removed by the treatment system operated by the User;

(3) The pollutants in the intake water do not vary chemically or biologically from the pollutants limited by the applicable Standards; and

(4) The User does not significantly increase concentrations of pollutants in the intake water, even if the total amount of pollutants remains the same.

(b) Criteria. Standards adjusted under this paragraph shall be calculated on the basis of the amount of pollutants present after any treatment steps have been performed on the intake water by or for the Industrial User. Adjustments under this section shall be given only to the extent that pollutants in the intake

water which are limited by the Standard are not removed by the treatment technology employed by the User.

(c) Notice. The User shall notify the Regional Enforcement Officer if there are any significant changes in the quantity of the pollutants in the intake water or in the level of treatment provided.

(d) EPA decision. The Enforcement Division Director shall require the User to conduct additional monitoring (i.e., for flow and concentration of pollutants) as necessary to determine continued eligibility for and compliance with any adjustments. The Enforcement Division Director shall consider all timely applications for credits for intake pollutants plus any additional evidence that may have been submitted in response to the EPA's request. The Enforcement Division Director shall then make a written determination of the applicable credit(s), if any, state the reasons for its determination, state what additional monitoring is necessary, and send a copy of said determination to the applicant and the applicant's POTW. The decision of the Enforcement Division Director shall be final.

§ 403.16 Upset provision.

- (a) Definition. For the purposes of this section, "Upset" means an exceptional incident in which there is unintentional and temporary noncompliance with categorical Pretreatment Standards because of factors beyond the reasonable control of the Industrial User. An Upset does not include noncompliance to the extent caused by operational error, improperly designed treatment facilities, lack of preventive maintenance, or careless or improper operation.
- (b) Effect of an upset. An Upset shall constitute an affirmative defense to an action brought for noncompliance with categorical Pretreatment Standards if the requirements of paragraph (c) are met.
- (c) Conditions necessary for a demonstration of upset. An Industrial User who wishes to establish the affirmative defense of Upset shall demonstrate, through properly signed, contemporaneous operating logs, or other relevant evidence that:

(1) An Upset occurred and the Industrial User can identify the specific

cause(s) of the Upset;

(2) The facility was at the time being operated in a prudent and workman-like manner and in compliance with applicable operation and maintenance procedures;

(3) The Industrial User has submitted the following information to the POTW

- and Control Authority within 24 hours of becoming aware of the Upset (if this information is provided orally, a written submission must be provided within five days):
- (i) A description of the Indirect Discharge and cause of noncompliance;
- (ii) The period of noncompliance, including exact dates and times or, if not corrected, the anticipated time the noncompliance is expected to continue;
- (iii) Steps being taken and/or planned to reduce, eliminate and prevent recurrence of the noncompliance.
- (d) Burden of proof. In any enforcement proceeding the Industrial User seeking to establish the occurrence of an Upset shall have the burden of proof.
- (e) Reviewability of agency consideration of claims of upset. In the usual exercise of prosecutorial discretion, Agency enforcement personnel should review any claims that non-compliance was caused by an Upset. No determinations made in the course of the review constitute final Agency action subject to judicial review. Industrial Users will have the opportunity for a judicial determination on any claim of Upset only in an enforcement action brought for noncompliance with categorical Pretreatment Standards.
- (f) User responsibility in case of upset. The Industrial User shall control production or all Discharges to the extent necessary to maintain compliance with categorical Pretreatment Standards upon reduction, loss, or failure of its treatment facility until the facility is restored or an alternative method of treatment is provided. This requirement applies in the situation where, among other things, the primary source of power of the treatment facility is reduced, lost or fails.

Appendix A.—United States Environmental Protection Agency

December 16, 1975.

Program Guidance Memorandum—61
Subject: Grants for Treatment and Control of
Combined Sewer Overflows and
Stormwater Discharges.

From: John T. Rhett, Deputy Assistant Administrator for Water Program Operations (WH-546).

To: Regional Administrators, Regions I–X.

This memorandum summarizes the Agency's policy on the use of construction grants for treatment and control of combined sewer overflows and stormwater discharges during wet-weather conditions. The purpose is to assure that projects are funded only when careful planning has demonstrated they are cost-effective.

I. Combined Sewer Overflows

A. Background

The costs and benefits of control of various portions of pollution due to combined sewer overflows and by-passes vary greatly with the characteristics of the sewer and treatment system, the duration, intensity, frequency and areal extent of precipitation, the type and extent of development in the service area, and the characteristics, uses and water quality standards of the receiving waters. Decisions on grants for control of combined sewer overflows, therefore, must be made on a case-by-case basis after detailed planning at the local level.
Where detailed planning has been

completed, treatment or control of pollution from wet-weather overflows and bypasses may be given priority for construction grant funds only after provision has been made for secondary treatment of dry-weather flows in the area. The detailed planning requirements and criteria for project approval follow.

B. Planning Requirements

Construction grants may be approved for control of pollution from combined sewer overflows only if planning for the project was thoroughly analyzed for the 20 year planning

- 1. Alternative control techniques which might be utilized to attain various levels of pollution control (related to alternative beneficial uses, if appropriate), including at least initial consideration of all the alternatives described in the section on combined sewer and stormwater control in "Alternative Waste Management Techniques and Best Practicable Waste Treatment" (Section C of Chapter III of the information proposed for comment in March 1974).
- 2. The costs of achieving the various levels of pollution control by each of the techniques appearing to be the most feasible and costeffective after the preliminary analysis.
- 3. The benefits to the receiving waters of a range of levels of pollution control during wet-weather conditions. This analysis will normally be conducted as part of State water quality management planning, 208 areawide management planning, or other State, regional or local planning effort.

4. The costs and benefits of addition of advanced waste treatment processes to dryweather flows in the area.

C. Criteria for Project Approval

The final alternative selected shall meet

the following criteria:

1. The analysis required above has demonstrated that the level of pollution control provided will be necessary to protect a beneficial use of the receiving water even after technology based standards required by Section 301 of P.L. 92-500 are achieved by industrial point sources and at least secondary treatment is achieved for dryweather municipal flows in the area.

2. Provision has already been made for funding of secondary treatment of dry-

weather flows in the area.

3. The pollution control technique proposed for combined sewer overflow is a more costeffective means of protecting the beneficial use of the receiving waters than other combined sewer pollution control techniques

and the addition of treatment higher than secondary treatment for dry-weather municipal flows in the area.

4. The marginal costs are not substantial compared to marginal benefits.

Marginal costs and benefits for each alternative may be displayed graphically to assist with determining a project's acceptability under this criterion. Dollar costs should be compared with quantified pollution reduction and water quality improvements. A descriptive narrative should also be included analyzing monetary, social and environmental costs compared to benefits. particularly the significance of the beneficial uses to be protected by the project.

II. Stormwater Discharges

Approaches for reducing pollution from separate stormwater discharges are now in the early stages of development and evaluation. We anticipate, however, that in many cases the benefits obtained by construction of treatment works for this purpose will be small compared with the costs, and other techniques of control and prevention will be more cost-effective. The policy of the Agency is, therefore, that construction grants shall not be used for construction of treatment works to control pollution from separate discharges of stormwater except under unusual conditions where the project clearly has been demonstrated to meet the planning requirements and criteria described above for combined sewer overflows.

III. Multi-purpose Projects

Projects with multiple purposes, such as flood control and recreation in addition to pollution control, may be eligible for an amount not to exceed the cost of the most cost-effective single purpose pollution abatement system. Normally the Separable Costs-Remaining Benefits (SCRB) method should be used to allocate costs between pollution control and other purposes, although in unusual cases another method may be appropriate. For such cost allocation, the cost of the least cost pollution abatement alternative may be used as a substitute measure of the benefits for that purpose. The method is described in "Proposed Practices for Economic Analysis of River Basin Projects," GPO, Washington, D.C., 1958, and "Efficiency in Government through Systems Analysis," by Roland N. McKean, John Wiley & Sons, Inc., 1958.

Enlargement of or otherwise adding to combined sewer conveyance systems is one means of reducing or eliminating flooding caused by wet-weather conditions. These additions may be designed so as to produce some benefits in terms of reduced discharge of pollutants to surrounding waterways. The pollution control benefits of such flood control measures, however, are likely to be small compared with the costs, and the measures therefore would normally be ineligible for funding under the construction

All multi-purpose projects where less than 100% of the costs are eligible for construction grants under this policy shall contain a special grant condition precluding EPA funding of non-pollution control elements.

This condition should, as a minimum, contain a provision similar to the following:
"The grantee explicitly acknowledges and agrees that costs are allowable only to the extent they are incurred for the water pollution control elements of this project."

Additional special conditions should be included as appropriate to assure that the grantee clearly understands which elements of the project are eligible for construction grants under Public Law 92-500.

Appendix B-65 Toxic Pollutants

Acenaphthene Acrolein Acrylonitrile Aldrin/Dieldrin Antimony and compounds1 Arsenic and compounds Asbestos Benzene Benzidine Beryllium and compounds Cadmium and compounds Carbon tetrachloride Chlordane (technical mixture and metabolites) Chlorinated benzenes (other than dichlorobenzenes) Chlorinated ethanes (including 1,2dichloroethane, 1,1,1-trichloroethane, and hexachloroethane) Chloralkyl ethers (chloromethyl, chloroethyl, and mixed ethers)

Chlorinated naphthalene Chlorinated phenols (other than those listed elsewhere; includes trichlorophenols and

chlorinated cresols)

Chloroform 2-chlorophenol Chromium and compounds ' Copper and compounds Cyanides

DDT and metabolites

Dichlorobenzenes (1,2-, 1,3-, and 1,4dichlorobenzenes)

Dichlorobenzidine

Dichloroethylenes (1,1- and 1,2-

dichloroethylene) 2,4-dichlorophenol

Dichloropropane and dichloropropene

2,4-dimethylphenol Dinitrotoluene Diphenylhydrazine Endosulfan and metabolites

Endrin and metabolites

Ethylbenzene Fluoroanthene

Haloethers (other than those listed elsewhere; includes chlorophenylphenyl ethers, bromophenylphenyl ether, bis(dischloroisopropyl) ether, bis-(chloroethoxy) methane and polychlorinated diphenyl ethers)

Halomethanes (other than those listed elsewhere; includes methylene chloromethyl-chloride, methylbromide, bromoform, dichlorobromomethane, trichlorofluoromethane, dichlorodifluoromethane)

Heptachlor and metabolites Hexachlorobutadiene

¹ As used throughout this Appendix B the term "compounds" shall include organic and inorganic compounds.

Hexachlorocyclohexane (all isomers)

Hexachlorocyclopentadiene

Isophorone

Lead and compounds

Mercury and compounds

Naphthalene

Nickel and compounds

Nitrobenzene

Nitrophenols (Including 2,4-dinitrophenol,

dinitrocresol) Nitrosamines Pentachlorophenol

Phenol

Phthalate esters

Polychlorinated biphenyls (PCBs) Polynuclear aromatic hydrocarbons

(including benzanthracenes, benzopyrenes, benzofluroranthene, chrysenes, dibenzanthracenes, and

indenopyrenes)

Selenium and compounds

Silver and compounds

2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)

Tetrachloroethylene Thallium and compounds

Toluene Toxaphene Trichloroethylene Vinyl chloride

Zinc and compounds

Appendix C-34 Industrial Categories

Adhesives and Sealants Aluminum Forming Auto and Other Laundries **Battery Manufacturing**

Coal Mining **Coil Coating**

Copper Forming

Electrical and Electronic Components

Electroplating

Explosives Manufacturing

Foundries

Gum and Wood Chemicals

Inorganic Chemicals Manufacturing Iron and Steel Manufacturing

Leather Tanning and Finishing Mechanical Products Manufacturing Nonferrous Metals Manufacturing

Ore Mining
Organic Chemicals Manufacturing

Paint and Ink Formulation

Pesticides

Petroleum Refining

Pharmaceutical Preparations

Photographic Equipment and Supplies

Plastics Processing

Plastic and Synthetic Materials

Manufacturing
Porcelain Enameling Printing and Publishing Pulp and Paper Mills

Rubber Processing Soap and Detergent Manufacturing

Steam Electric Power Plants

Textile Mills

Timber Products Processing

Appendix D—Selected Industrial Subcategories Exempted From Regulation Pursuant of Paragraph 8 of the NRDC v. **Costle Consent Decree**

The following industrial subcategories have been excluded from further rulemaking pursuant to paragraph 8 of the Natural Resources Defense Council v. Costle Consent Decree for one or more of the following reasons: (1) the pollutants of concern are not detectable in the effluent from the Industrial User (paragraph 8(a)(iii)); (2) the pollutants of concern are present only in trace amounts and are neither causing nor likely to cause toxic effects (paragrpah 8(a)(iii)); (3) the pollutants of concern are present in amounts too small to be effectively reduced by technologies known to the Administrator paragraph 8(a)(iii)); or (4) the wastestream contains only pollutants which are compatible with the POTW (paragraph 8(b)(i)). In some instances, different rationale were given for exclusion under paragraph 8. However, EPA has reviewed these subcategories and has determined that exclusion could have occurred due to one of the four reasons listed above.

This list includes all subcategories that have been excluded for the above-listed reasons as of [date of publication in the Federal Register]. This list will be updated periodically for the convenience of the

Auto and Other Laundries Industry

Carpet Cleaners

Coin Operated Laundries

Diaper Services

Dry Cleaners

• Power Laundries

Battery Manufacturing Industry

Carbon Zinc Air Cell Batteries

Lithium Batteries

Magnesium Carbon Batteries

Magnesium Cell Batteries

Miniature Alkaline Batteries

Nickel Zinc Batteries

Electrical and Electronic Components

Carbon and Graphite Products

Fixed Capacitors

Fluorescent Lamps

Incandescent Lamps

Magnetic Coatings

Mica Paper

Electroplating

· Alkaline Cleaning

Bright Dipping

Chemical Machining

Galvanizing

Immersion Plating

Iridite Dipping

Pickling

Explosives Industry

Military Explosive Manufacturing

Foundries Industry

Nickel Casting

Tin Casting

Titanium Casting

Gum and Wood Chemicals

Char and Charcoal Briquets

· Gum Resin, Turpentine and Essential Oils

Iron and Steel Industry

Basic Oxygen Furnace (Semiwet)

Beehive Coke Process

Electric Arc Furnace (Semiwet)

Inorganic Chemicals Manufacturing Industry

• Aluminum Sulfate

- Ammonium Chloride
- Ammonium Hydroxide
- **Barium Carbonate**
- Borax
- Boric Acid
- Bromine
- Calcium Carbide
- Calcium Carbonate
- Calcium Chloride Calcium Hydroxide
- Calcium Oxide
- Carbon Dioxide
- Carbon Monoxide
- Chromic Acid
- Cuprous Oxide Ferric Chloride
- Ferrous Sulfate
- Fluorine
- Hydrogen
- Hydrochloric Acid
- Hydrogen Peroxide
- Iodine
- · Lead Monoxide
- Lithium Carbonate
- Manganese Sulfate
- Nitric Acid
- Oxygen and Nitrogen
- Potassium Chloride
- Potassium Dichromate
- Potassium Iodide
- Potassium Metal
- Potassium Permanganate **Potassium Sulfate**
- Sodium Bicarbonate
- Sodium Carbonate
- Sodium Chloride
- Sodium Fluoride
- Sodium Hydrosulfide
- Sodium Metal
- Sodium Silicate
- Sodium Sulfite Sodium Thiosulfate
- Stannic Oxide
- Sulfur Dioxide
- Sulfuric Acid
- Zinc Oxide Zinc Sulfate

Leather Industries

- Luggage
- · Shoes and Related Footwear
- Personal Goods

Non Ferrous Metals Industry

- Primary Arsenic
- Primary Antimony
- Secondary Babbitt
- Primary Barium Secondary Beryllium
- Primary Bismuth
- Primary Boron
- Secondary Boron
- Bauxite
- Secondary Cadmium
- Primary Calcium
- Primary Cesium
- Primary Chromium
- Primary Cobalt Secondary Cobalt
- Secondary Columbium Primary Gallium
- Primary Germanium
- Primary Gold Secondary Precious Metals
- Primary Hafnium

- Primary and Secondary Indium
- Primary Lithium
- Primary Manganese
- Primary Magnesium
- Secondary Magnesium
- **Primary Mercury**
- Secondary Mercury
- Primary Molybdenum
- Secondary Molybdenum
- **Primary Nickel**
- Secondary Nickel
- Secondary Plutonium
- Primary Potassium
- **Primary Rare Earths**
- Primary Rhenium
- Secondary Rhenium
- Primary Rubidium
- Primary Platinum Group
- Primary Silicon
- Primary Sodium
- Secondary Tantalum
- Primary Tin
- Secondary Tin
- Primary Titanium Secondary Titanium
- Secondary Tungsten
- **Primary Uranium**
- Secondary Uranium
- Secondary Zinc
- · Primary Zirconium

Paint and Ink Industry

- Solvent Base Process
- Solvent Wash Process

Paving and Roofing Industry.

- Asphalt Concrete
- Asphalt Emulsion
- Linoleum
- **Printed Asphalt Felt**
- Roofing

Pulp, Paper, Paperboard, and Converted Paper Industry

Converted Paper Industry

Rubber Processing Industry

- Latex-Dipped, Latex-Extruded, and Latex Molded Goods
- Latex Foam
- Small-sized General Molded, Extruded and Fabricated Rubber Plants
- Medium-sized General Molded, Extruded and Fabricated Rubber Plants
- Large-sized General Molded, Extruded and **Fabricated Rubber Plants**
- Synthetic Crumb Rubber Production-**Emulsion Polymerization**
- Synthetic Crumb Rubber Production— Solution Polymerization
- Synthetic Latex Rubber Production
- Tire & Inner Tube Production

Textile Industry

- **Apparel Manufacturing**
- Cordage and Twine
- Low Water Use Processing (Greige Mills)
- Padding and Upholstery Filling

Timber Products Processing

- Barking Process
- Finishing Processes Hardboard—Dry Process
- Log Washing Particleboard
- **Planing Mills**
- Sawmills

- Vencer
- Wet Storage
- Wood Preserving (Inorganics) Process

PART 125—CRITERIA AND STANDARDS FOR THE NATIONAL **POLLUTANT DISCHARGE ELIMINATION SYSTEM**

Subpart D-Criteria and Standards for **Determining Fundamentally Different** Factors Under Sections 301(b)(1)(A), 301(b)(2) (A) and (E)[AND 307(B)] OF THE ACT

- 2. 40 CFR Part 125 subpart D is amended by deleting "and 307(b)" from the title of the subpart.
- 3. 40 CFR § 125.30 is amended to read as follows:

§ 125.30 Purpose and scope.

(a) This subpart establishes the criteria and standards to be used in determining whether effluent limitations alternative to those required by promulgated EPA effluent limitations guidelines under sections 301 and 304 of the Act (hereinafter referred to as "national limits") should be imposed on a discharger because factors relating to the discharger's facilities, equipment, processes or other factors related to the discharger are fundamentally different from the factors considered by EPA in development of the national limits. This subpart applies to all national limits promulgated under sections 301 and 304 of the Act, except for those contained in 40 CFR Part 423 (steam electric generating point source category).

(b) In establishing national limits, EPA takes into account all the information it can collect, develop and solicit regarding the factors listed in sections 304(b) and 304(g) of the Act.

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