OSROs:

WHERE ARE THEY FOR THE FACILITY RESPONSE PLAN HOLDERS IN THE WESTERN USA?

AN INDUSTRY PERSPECTIVE

By

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THE NEED FOR INLAND OSRO'S

WESTERN U. S. HAS:

14.6% OF U. S. REFINERIES

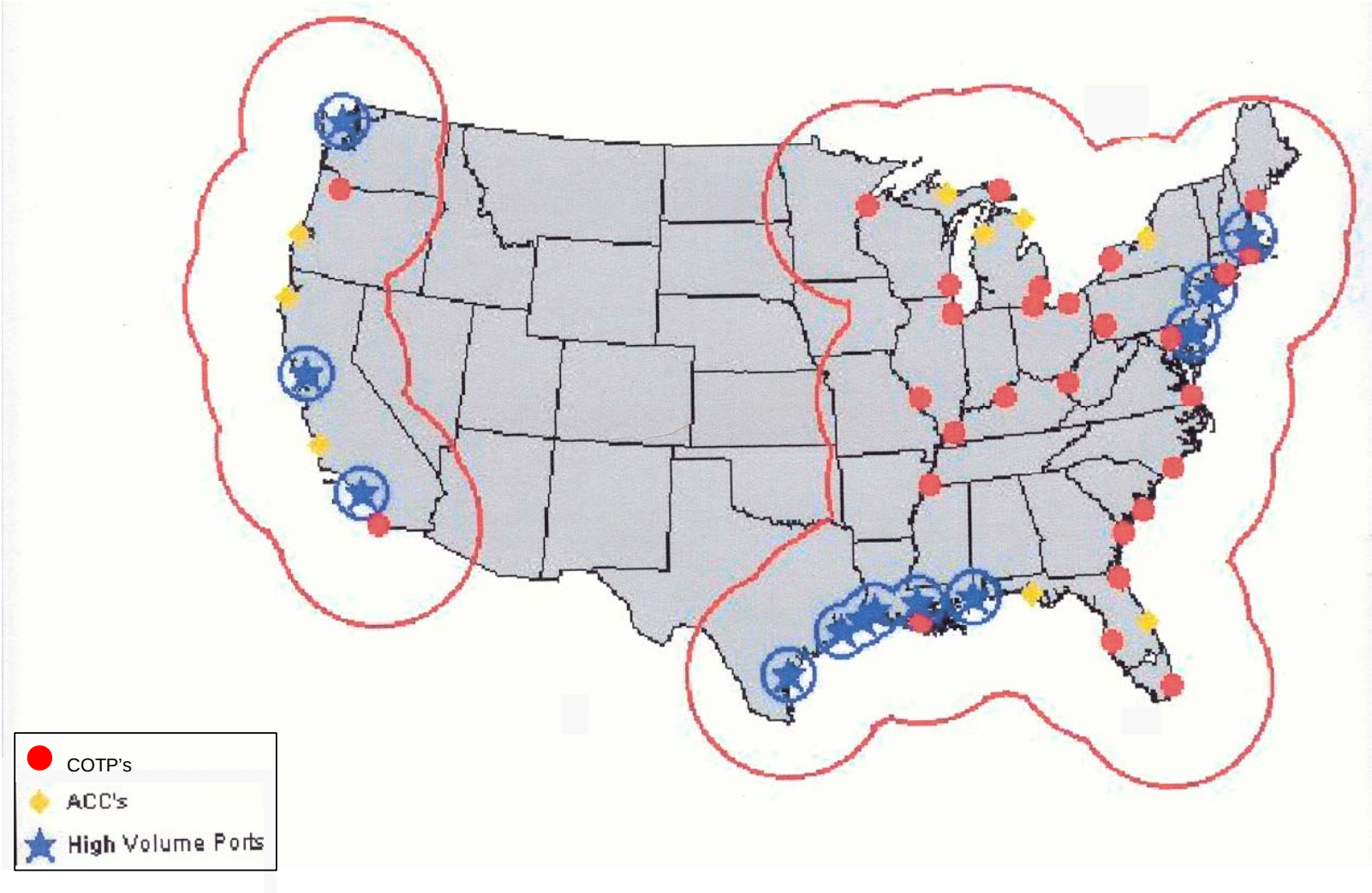
NUMEROUS CRUDE OIL PIPELINES

NINE OF THE TOP TWENTY OIL PRODUCING STATES

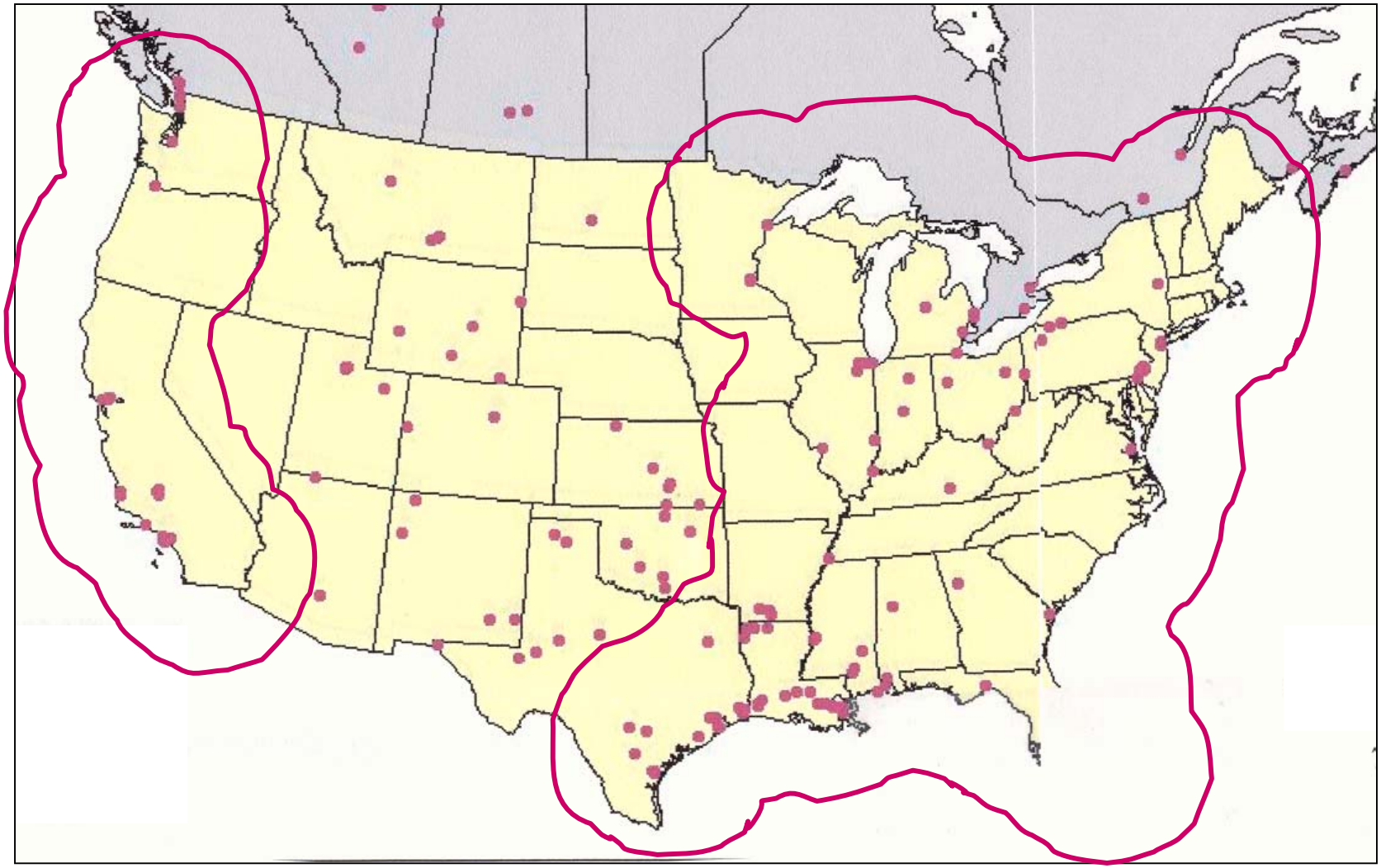
VULNERABLE AREAS

NO U. S. COAST GUARD COTPs OR ACCs

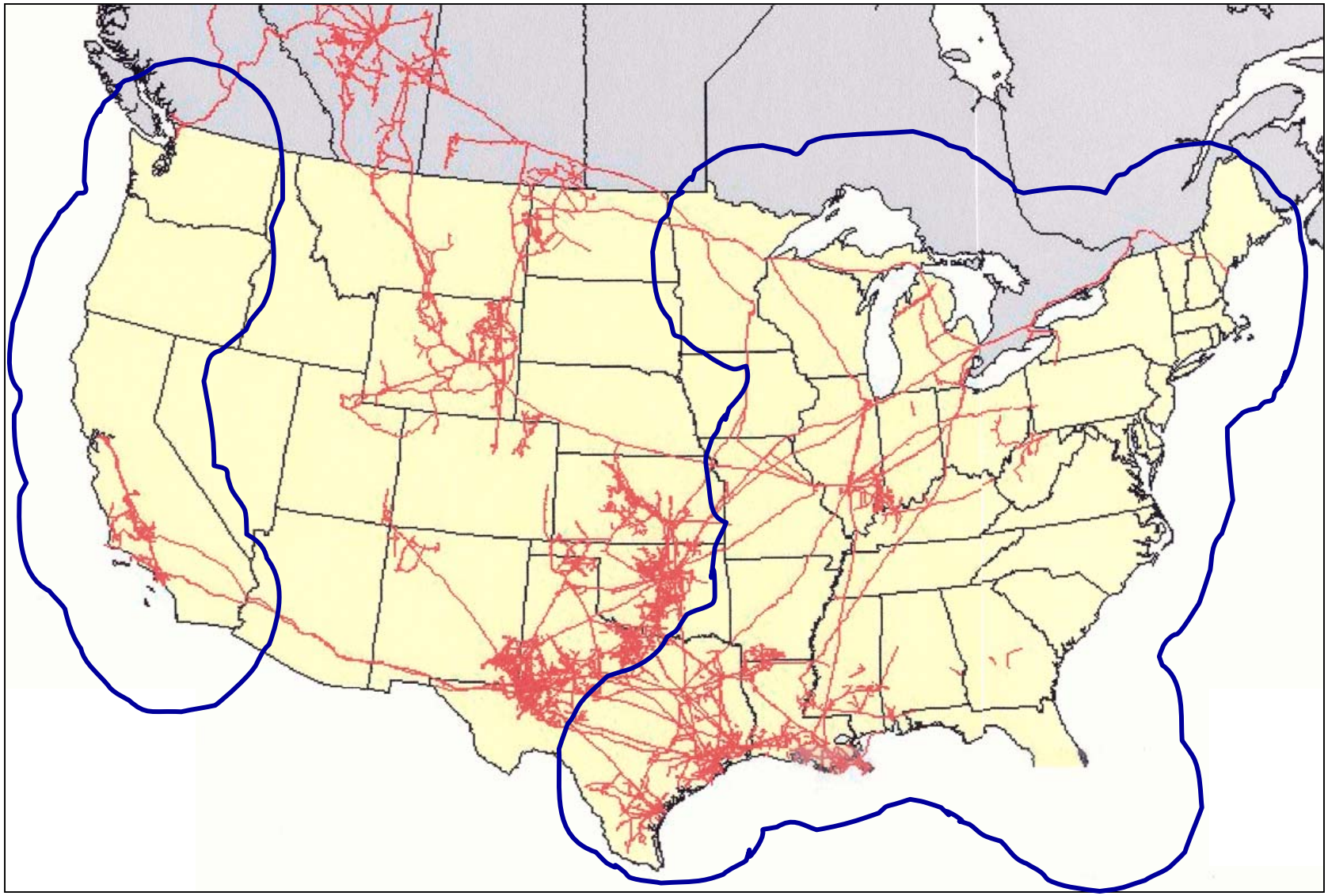
U. S. COAST GUARD COTP AND ACC COVERAGE



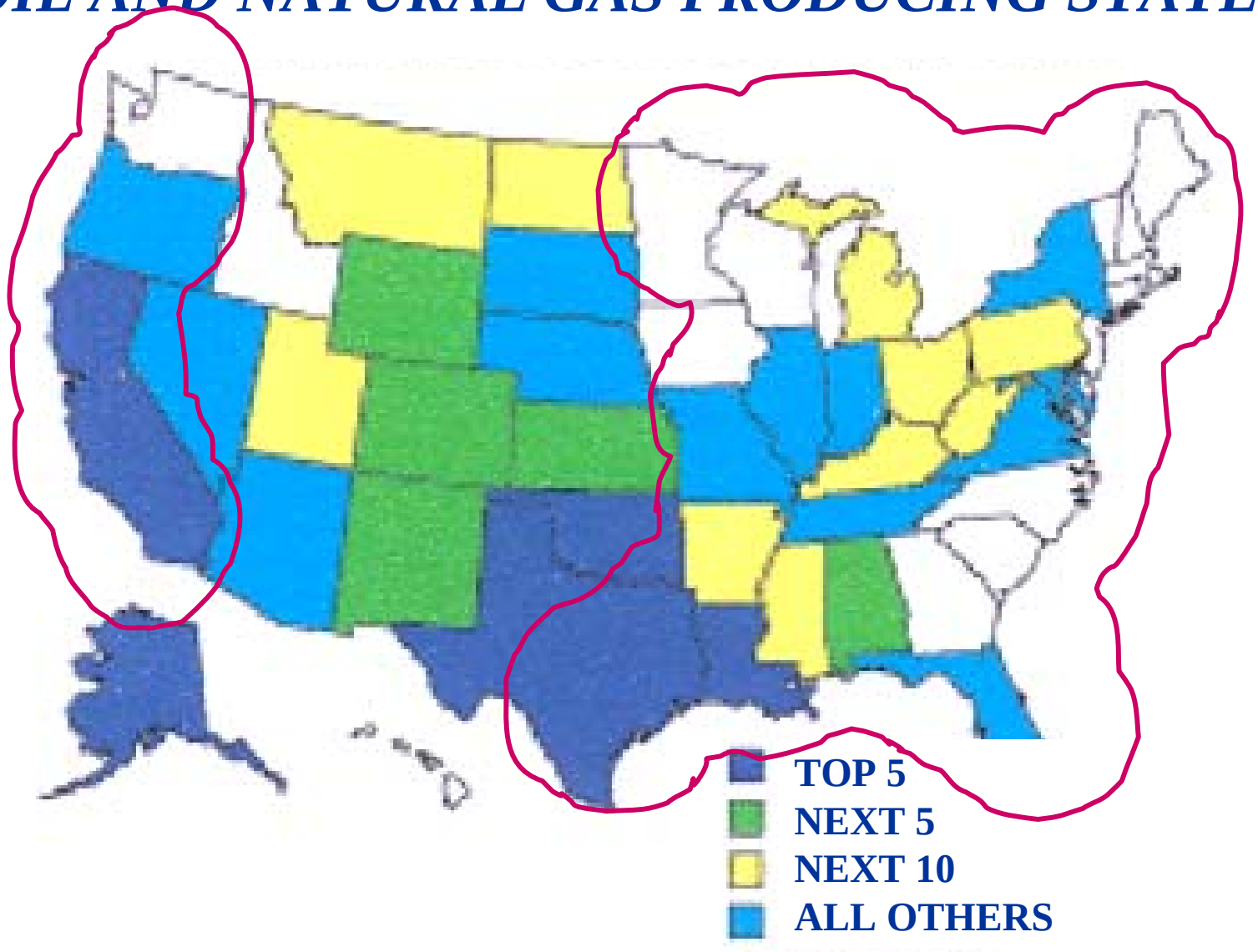
REFINERY LOCATIONS IN THE U. S.



CRUDE OIL PIPELINE LOCATIONS IN THE U. S.



OIL AND NATURAL GAS PRODUCING STATES



VULNERABILITIES

PIPELINE CROSSINGS

INLAND REFINERIES

TERRORIST THREATS

NUMBER OF INLAND SPILLS

70% OF ALL SPILLS OCCUR INLAND

NATIONAL TREASURES

GRAND CANYON ***YELLOWSTONE NAT'L PARK***
MESA VERDE ***LAKE POWELL***

ISSUES FACED BY WESTERN COMPANIES THAT NEED OSROs

LOCATED OUTSIDE COTP/ACC CIRCLES

OSRO RESPONSE TIMEFRAMES

EPA and DOT CHECKLISTS REQUIRE AN OSRO

MUTUAL AID ORGANIZATIONS PROVIDE LIMITED HELP AND RELIABILITY

ISSUES FACED BY AN INLAND OSRO

LOCATION OF COTPs and ACCs MAKE SUPPORTING INLAND SITES DIFFICULT

LIMITED UNDERSTANDING OF EQUIPMENT DIFFERENCES IN COASTAL AND INLAND ENVIRONMENTS BY REGULATORY AGENCIES

DIFFERENT APPROACHES TO INLAND WATER SPILLS VS. COASTAL SPILLS ARE REQUIRE A CHANGE IN PERSPECTIVE

POSSIBLE ALTERNATIVE CITIES

UTILIZE CITIES WHERE

THE EPA OR DOT

ALREADY HAS A PRESENCE

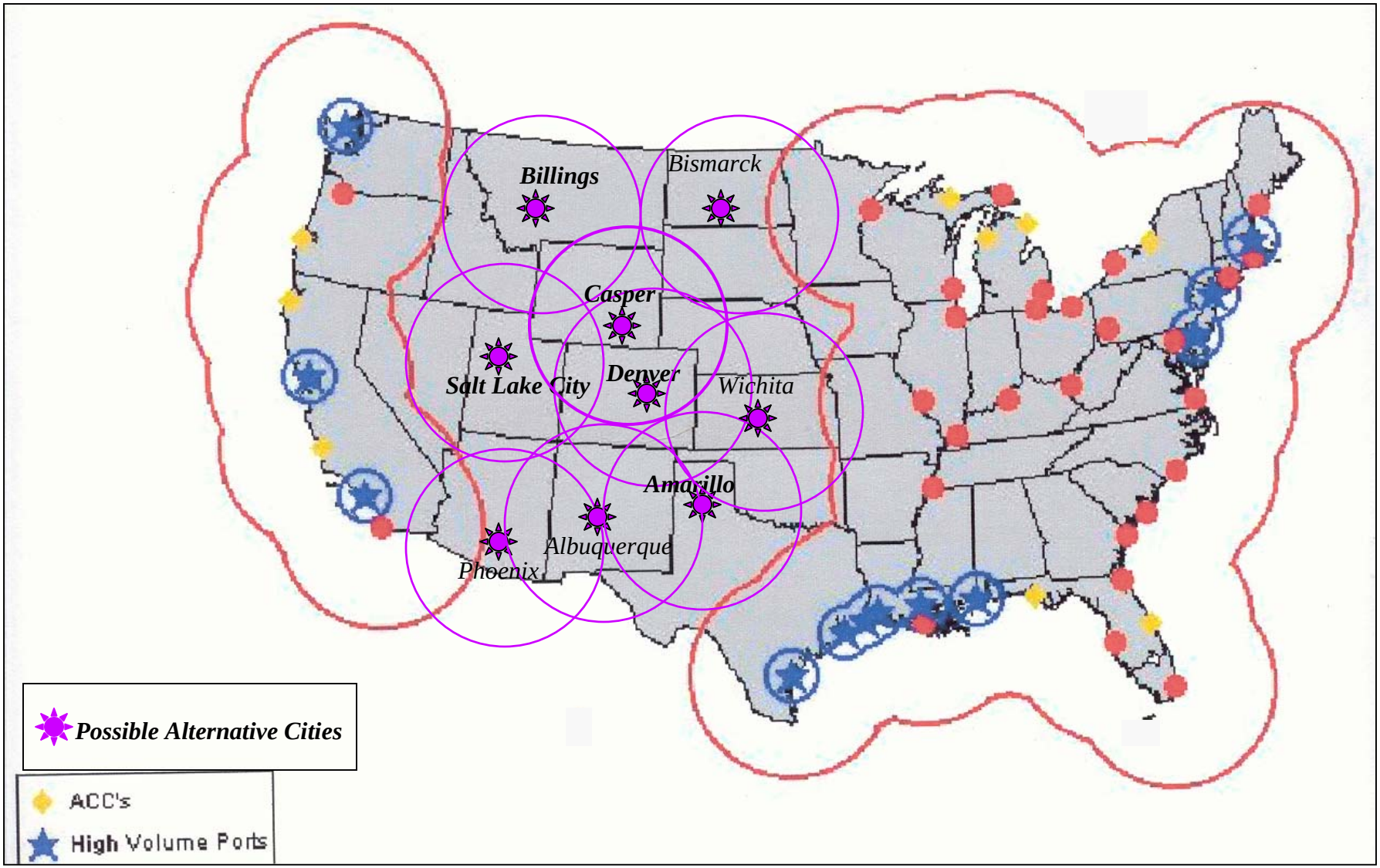
TO CREATE NEW CLASSIFICATION CITIES

CONTROLLED BY EPA/DOT CALLED

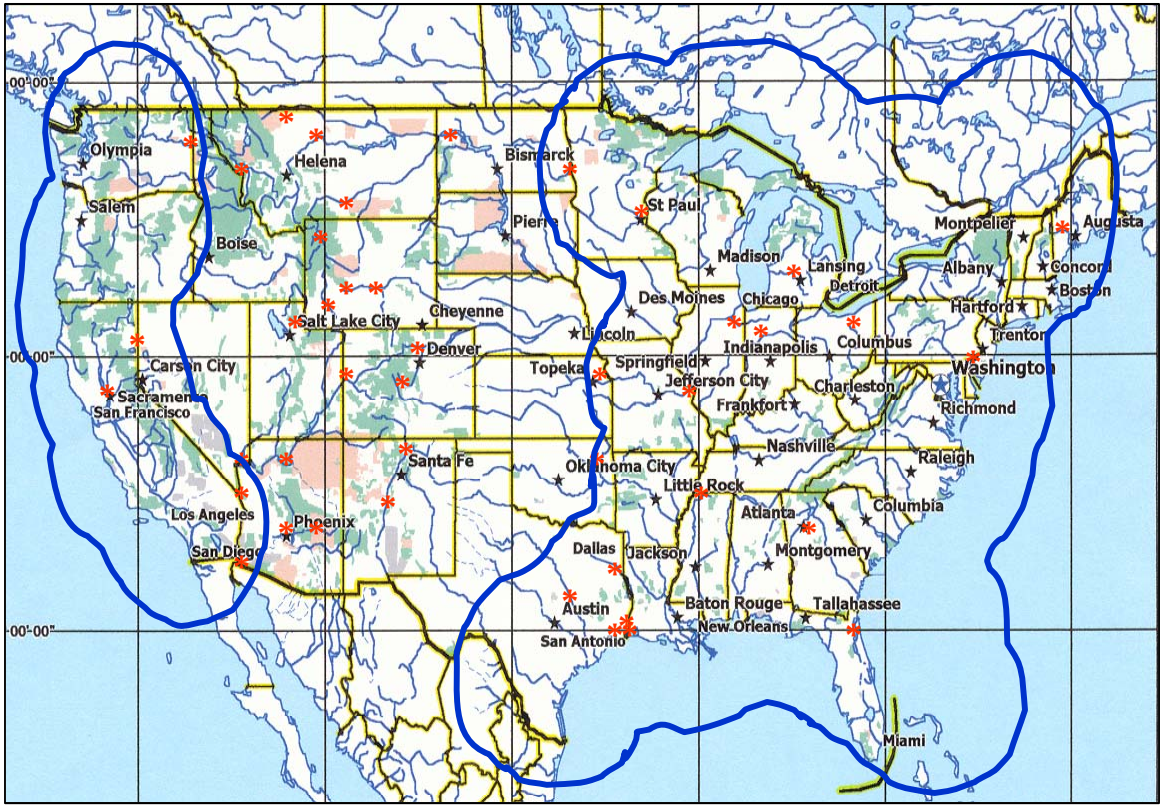
INLAND COMPLIANCE CITIES

POSSIBLE ALTERNATIVE INLAND COMPLIANCE CITIES

Great Falls, MT	**Billings, MT**	**Casper, WY**	**Phoenix, AZ**	**Bismarck, ND**
Salt Lake City, UT	**Denver, CO**	**Amarillo, TX**	**Albuquerque, NM**	**Wichita, KS**



INLAND RIVER BOOMING LOCATIONS



ARIZONA

Colorado
Gila
Aqua Fria
Salt
Bill Williams

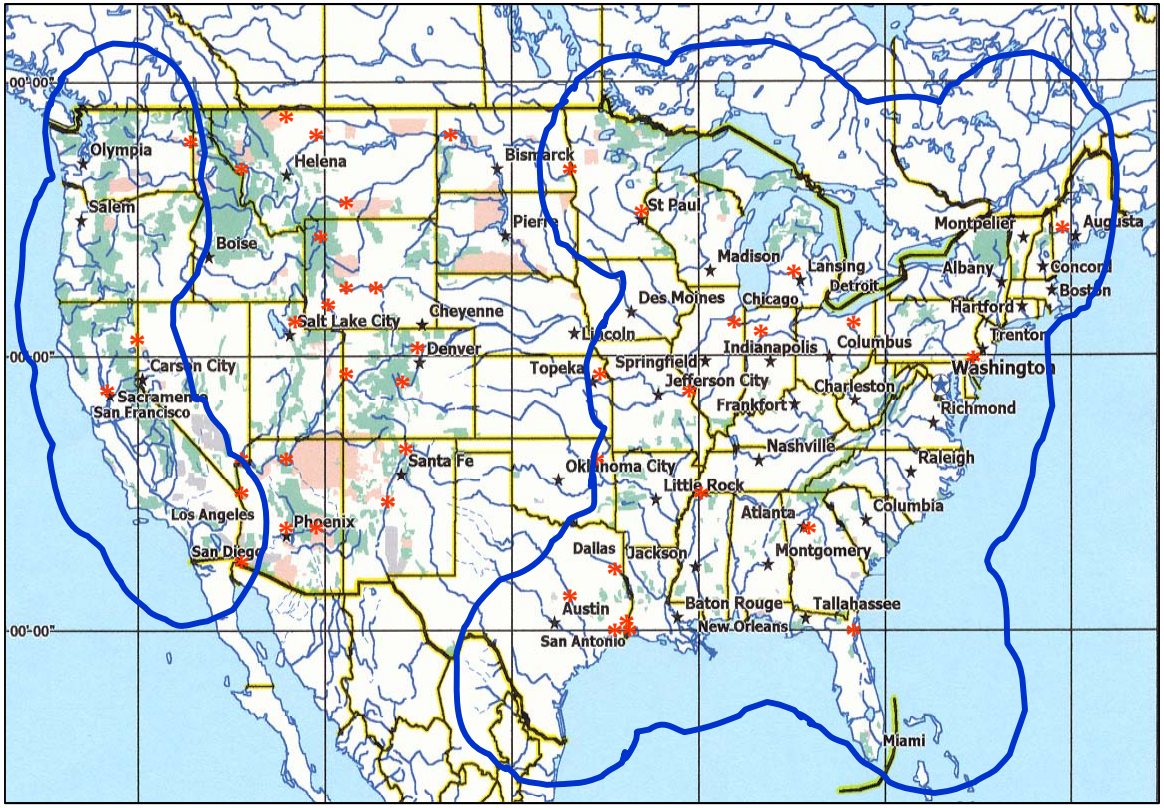
COLORADO

Arkansas
Colorado
Fountain
South Platt
Alamosa
Rio Grande
Snake
Pine
Gunnison
Animas

NEW MEXICO

Rio Grande
Red
Chama
Brazos
Jemez
San Juan
Animas
Embudo
Pecos
Cimarron
Canadian
Mora
Gila

INLAND RIVER BOOMING LOCATIONS (cont.)



NORTH DAKOTA

Missouri
Red

SOUTH DAKOTA

Cheyenne
Missouri
Red

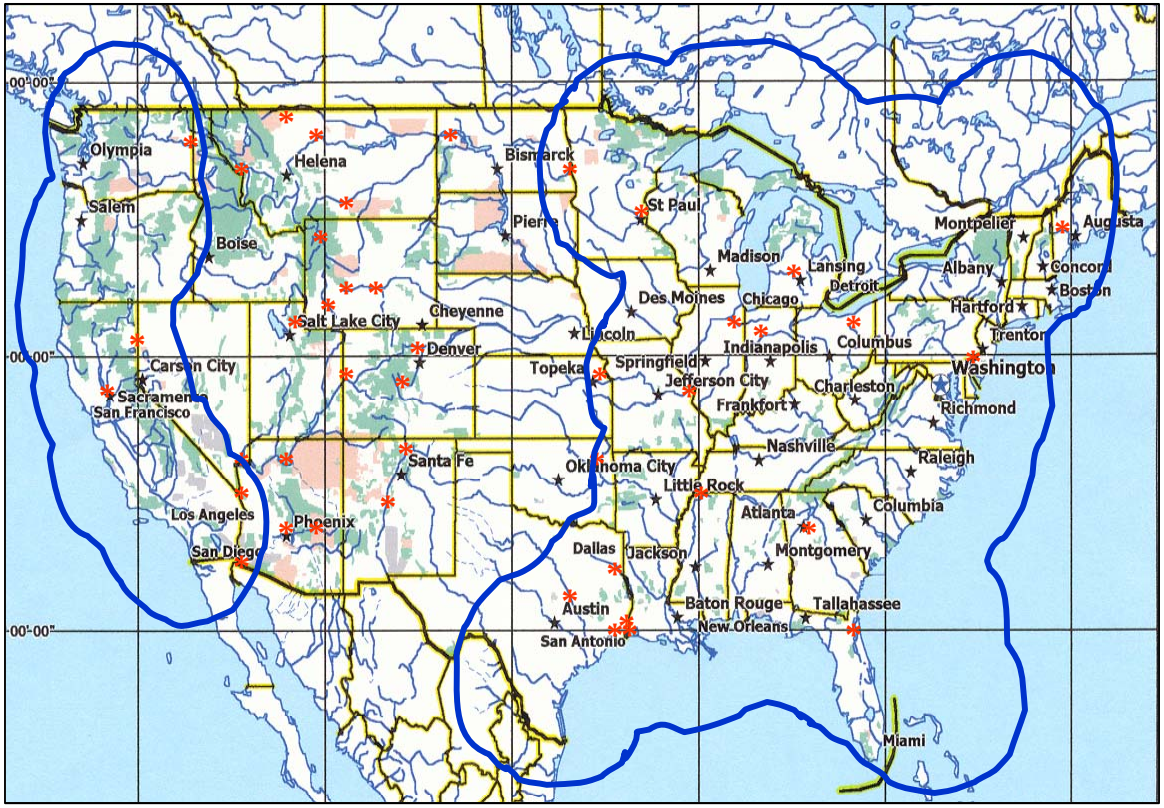
WYOMING

Popo Agie
Green
Wind
North Platt
Shoshone
Gros Ventre
Powder
Little Wind
Yellowstone
Big Horn
Cheyenne
Clarks Fork
Hovack
Sand
Snake
Tongue
Lamar

IDAHO

Big Lost
Big Wood
Little Wood
Clark Fork
Clearwater
Colburn
Humboldt
Little Lost
Bruneau
Lochsa
Payette
Salmon
Selway
Snake

INLAND RIVER BOOMING LOCATIONS (cont.)



MONTANA

Clark Fork
Yellowstone
Teton
Boulder
Gallatin
Powder
Smith
Swan
Missouri
Marias
Bitterroot
Dearborn
Jefferson
Rock
Tongue
Sun
Shoshone
Blackfoot
Flathead
Madison
Sheilds
Stillwater

UTAH

Weber
Bear
Colorado
Dolores
Escalante
Fremont
Green
Virgin
San Juan
Uinta
Logan

IDAHO

Big Lost
Big Wood
Bruneau
Clark Fork
Clearwater
Little Wood
Humboldt
Little Lost
Lochsa
Payette
Salmon
Selway
Snake
Colburn

EQUIPMENT DIFFERENCES

INLAND ENVIRONMENTS NEED:

SMALLER BOOM

INLAND

COASTAL

EQUIPMENT DIFFERENCES

INLAND ENVIRONMENTS NEED:

SMALLER SKIMMERS

INLAND

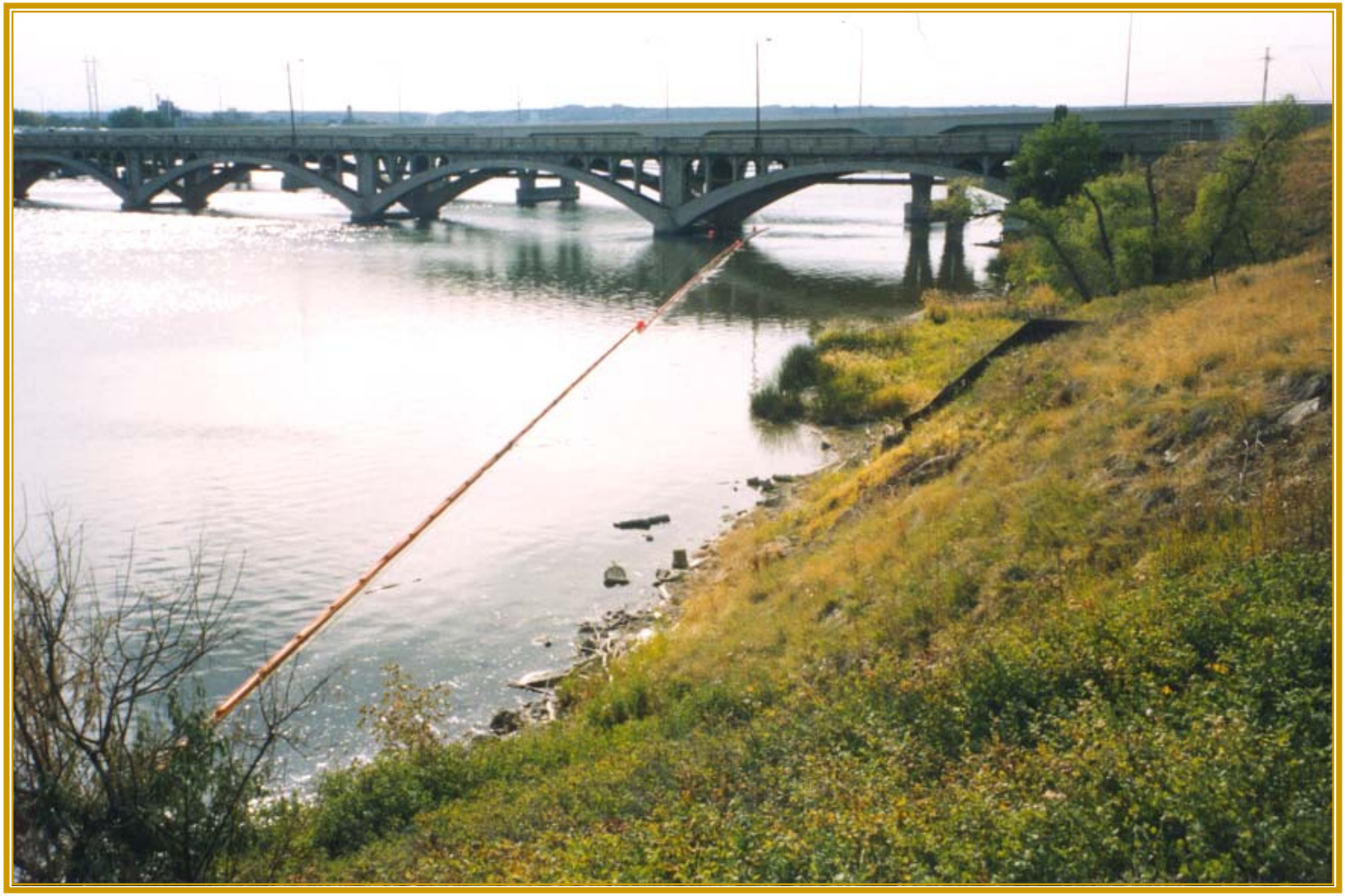
COASTAL

APPROACHES TO INLAND WATER SPILLS

BANK TO BANK CASCADE ANCHOR SYSTEM

APPROACHES TO INLAND WATER SPILLS

BRIDGE TO BANK CASCADE ANCHOR SYSTEM



APPROACHES TO INLAND WATER SPILLS

BRIDGE TO BANK CASCADE ANCHOR SYSTEM

APPROACHES TO INLAND WATER SPILLS

BUOY TO BANK CASCADE ANCHOR SYSTEM

APPROACHES TO INLAND WATER SPILLS

BUOY TO BANK CASCADE ANCHOR SYSTEM

OBSERVATIONS

MANY CURRENT OSROs ARE TOO FAR AWAY TO REACH MANY INLAND COMPANIES IN A TIMELY MANNER

US COAST GUARD RESPONSIBILITIES DO NOT EXTEND TO MOST INLAND AREAS

EPA AND DOT INVOLVEMENT IS CURRENTLY LIMITED TO FACILITY RESPONSE PLAN REVIEWS

RECOMMENDATIONS

EPA AND DOT ESTABLISH

"INLAND COMPLIANCE CITIES"

TO COVER THE INLAND U. S.

AND DETERMINE *WHO* WILL DRIVE

THIS COVERAGE AND *HOW*

RECOMMENDATIONS

EPA/DOT PARTICIPATE IN

MODIFYING OR CREATING

OSRO GUIDELINES FOR

RIVERS, CANALS, AND LAND SPILLS

(INCLUDING NON-NAVIGABLE AND DAMMED WATERWAYS, AND THOSE WITH NO COMMERCIAL BOAT TRAFFIC)

RECOMMENDATIONS

USCG, EPA AND DOT

CONSULT ABOUT

RIVER AND CANALS ISSUES

TO ESTABLISH

INLAND COMPLIANCE CITIES

FOR OSRO CLASSIFICATIONS

RECOMMENDATIONS

EPA AND DOT PROVIDE

RECOMMENDATIONS TO

FACILITY PLAN HOLDERS

ON OSRO SELECTION

FOR RIVERS AND CANALS

RECOMMENDATIONS

DEVELOP

GEOGRAPHICAL RESPONSE PLANS

AS A PART OF

FACILITY RESPONSE PLANS AND

REGIONAL PLANS

RECOMMENDATIONS

DEVELOP A SYSTEM FOR DETERMINING

OSRO COMPETENCY

AND

PROVIDE

TRAINING CERTIFICATIONS

FOR PERSONNEL

CONCLUSION

WITHOUT SOME OUTSIDE SUPPORT FOR

INLAND OIL COMPANIES

IN THE EVENT OF A SPILL,

THE POTENTIAL FOR THE LOSS OF

VALUABLE NATURAL RESOURCES

IS GREAT.