Natural Gas STAR
10th Annual Implementation Workshop
October 27 - 29, 2003
Partner Experiences

Presented by
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Overview

• Background
  – Who We Are
  – Where We Are Located

• STAR Program Implementation
  – Emissions Reductions Over the Years
  – Ongoing Commitment

• Future Opportunities
Who We Are

Gas Transmission Northwest Corporation (GTN)

a subsidiary of

National Energy & Gas Transmission, Inc.
Gas Transmission Northwest

- 612.5 Miles – Dual Lines
- Through ID, WA, OR
- 2.9 Bscf/day
- 12 Compressor Stations
  - 2-3 Compressors Each Station
  - 517,810 HP (ISO) Total
North Baja Pipeline, LLC

- Owned and operated by GTN
- 79.8 Miles – Single Line
- Through AZ and CA
- 500 MMscf/day
- 1 Compressor Station
  - 4 Compressors
  - 28,160 HP (ISO)
Gas Transmission Northwest
Environmental Policy

GTN is committed to being an environmental leader by providing safe, economical and reliable products and services in a responsible and environmentally sensitive manner.
Gas STAR Implementation

• MOU Signed Fall 2000
  – Good for Environment
  – Good for Business
  – Right Thing To Do

• Gas STAR Principles in Line With GTN Environmental Policy/Principles

• Reducing Methane Emissions “Operationalized”
Commitment to Program

• Many BMPs / PROs in Place Before Entering into Program
• Way We Do Business
  – Frequent Inspections
  – Installation of Double Seated Discharge Valves
• Annual Env Goals / Footprint Reduction
• Team Effort
Savings Reported

• 8.8 Bscf of Methane Reduced (through 2002)
• Gas Value of Approx. $26.5 Million ($3/Mscf)
• Major Savings From:
  – Reduced Frequency of Engine Starts
  – Reduced Local Blowdowns
  – Replacement of Wet Seals
  – Altered ESD Practices
  – Inspection/Maintenance
Future Opportunities

• Reduce Frequency of Engine Cleaning
  – Currently Scheduled Based on Time
  – Change to Based on Need

• Use of Low or No-Bleed Valve Operators
  – For New and Replacement Operators

• Mainline Drawdown Project – Proposed
Proposed Drawdown Project

• Use Portable Compressors to Remove Gas From Pipeline

• Normal Pressure Reduction
  – 200-300 PSI Reduced
  – 600-700 PSI Remaining

• Goal: Reduction to at Least 100 PSI

• Associated Issues
Proposed Drawdown Project

Example of portable compressor
Summary

• Gas STAR Principles Are “Operationalized” into Culture
• Program is Vehicle to Share Successes
• More Opportunities to be Discovered