

**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**

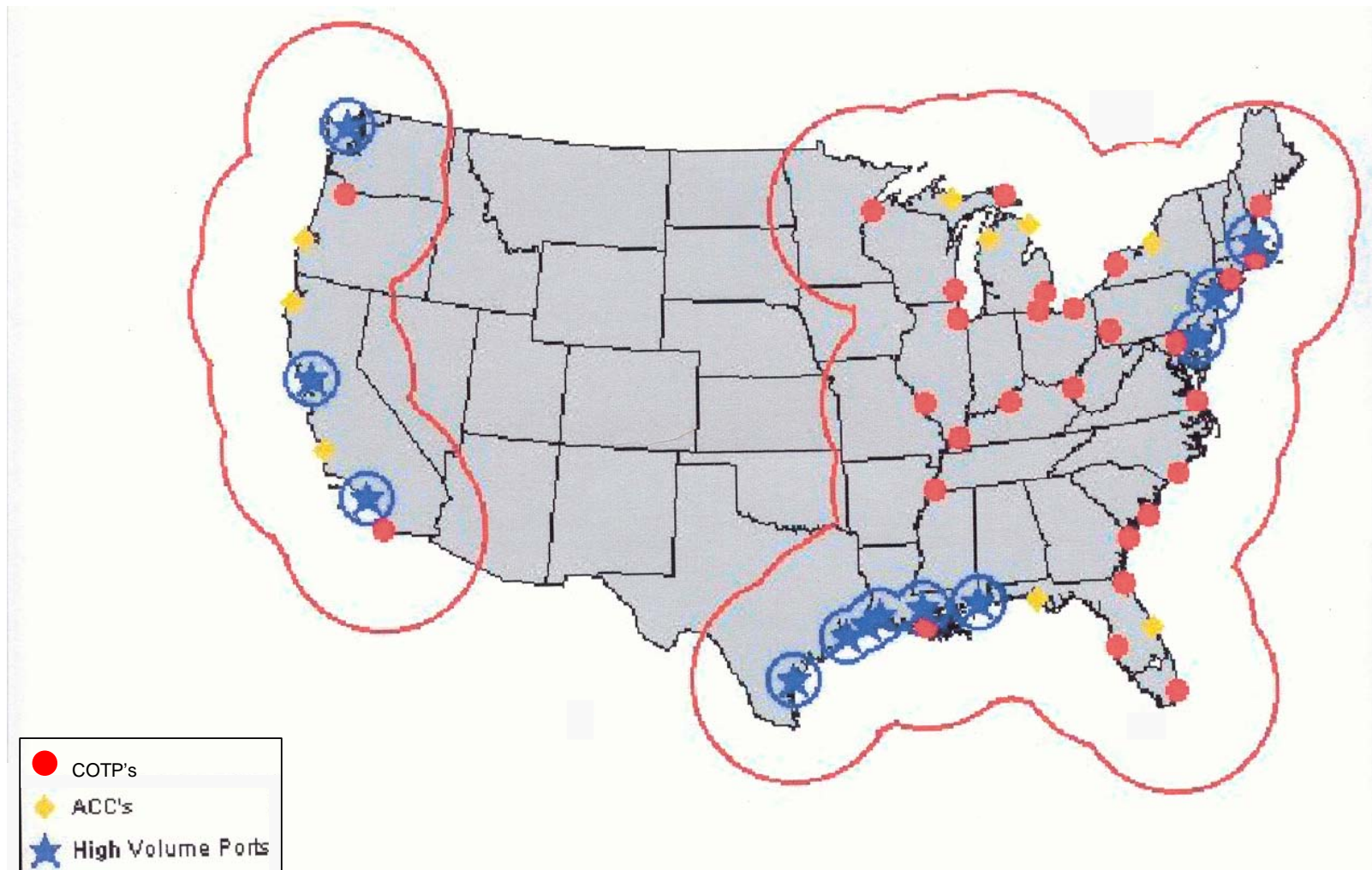
**NUMEROUS CRUDE OIL PIPELINES**

**NINE OF THE TOP TWENTY  
OIL PRODUCING STATES**

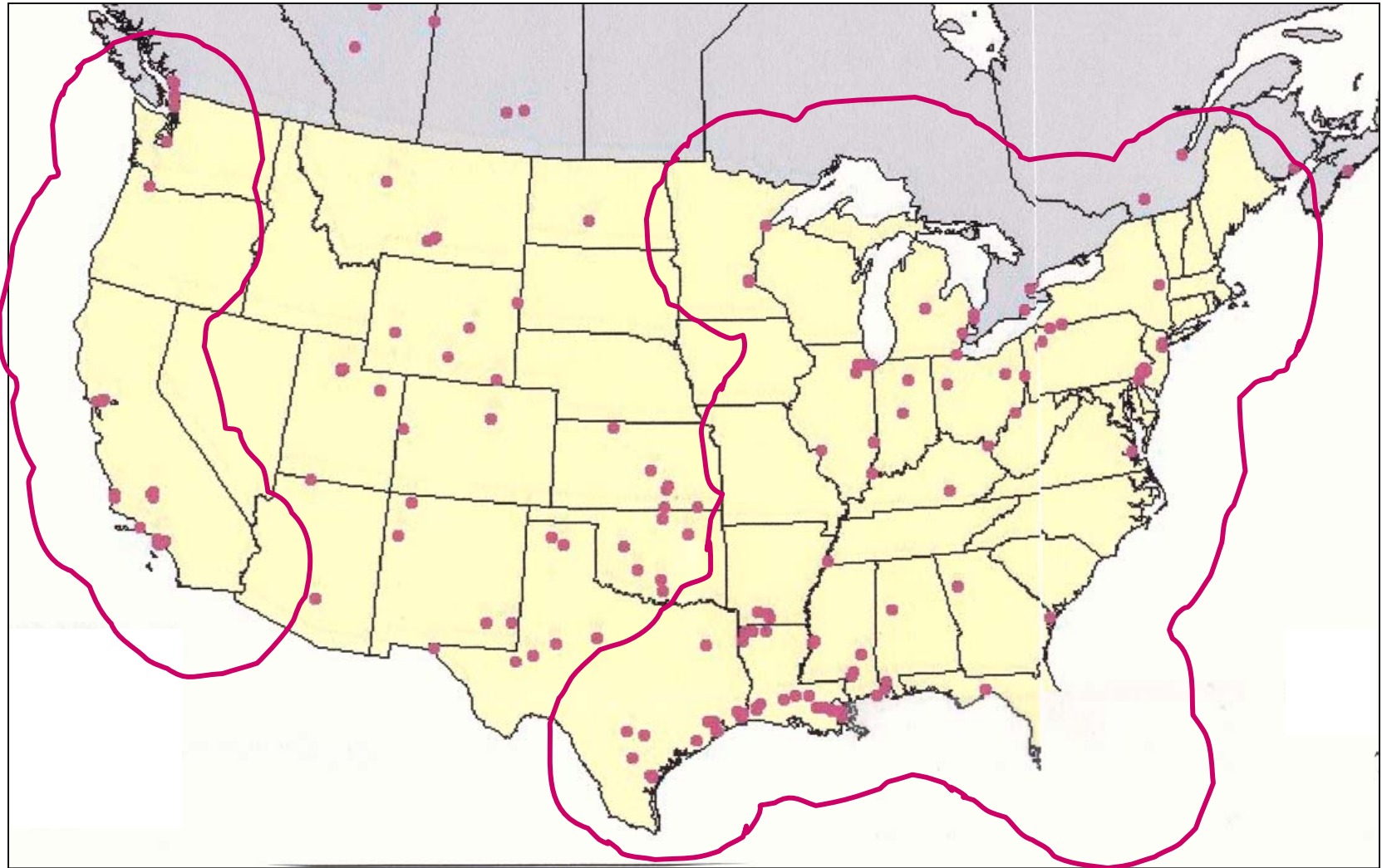
**VULNERABLE AREAS**

***NO U. S. COAST GUARD COTPs OR ACCs***

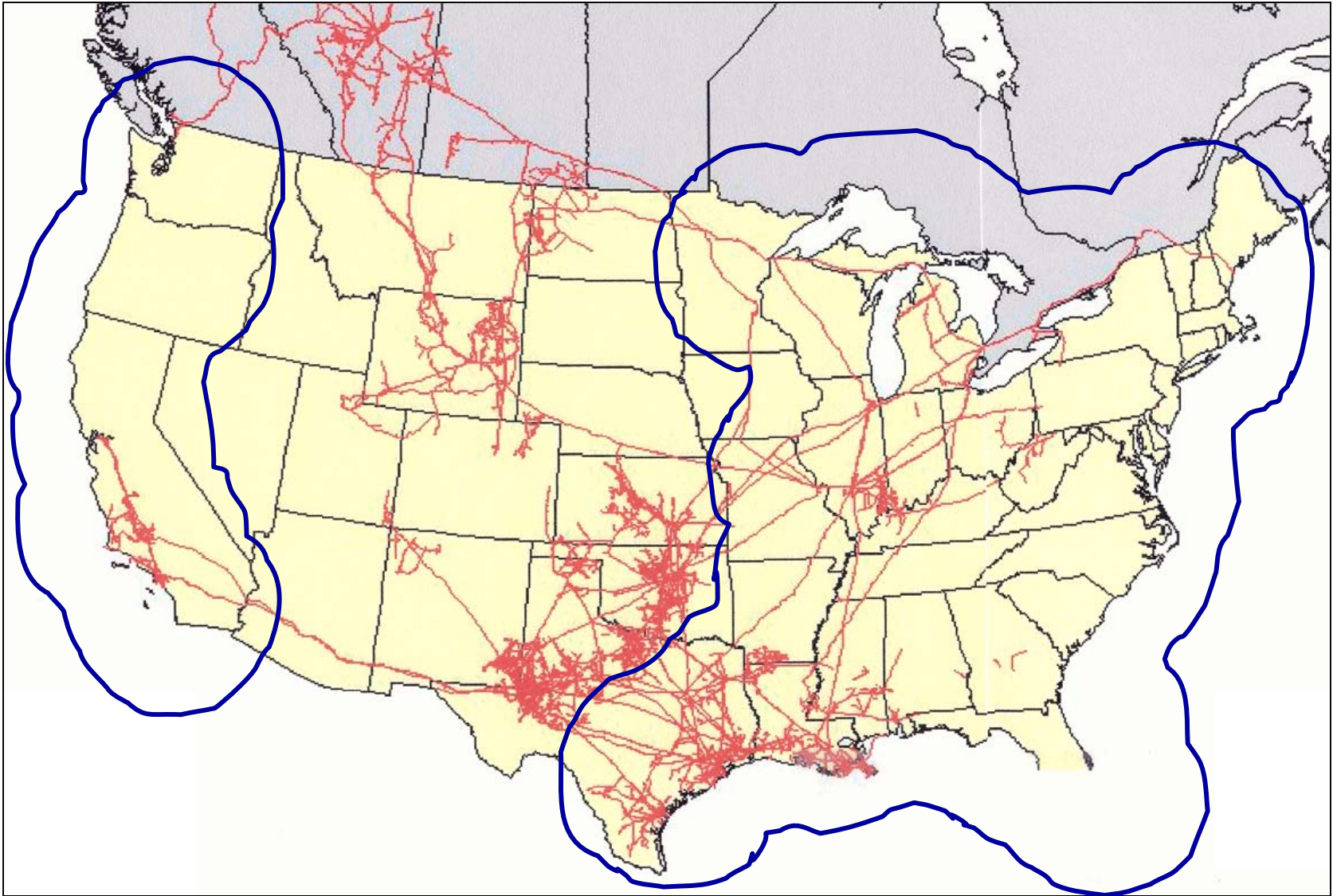
# ***U. S. COAST GUARD COTP AND ACC COVERAGE***



## *REFINERY LOCATIONS IN THE U. S.*



# ***CRUDE OIL PIPELINE LOCATIONS IN THE U. S.***





# **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

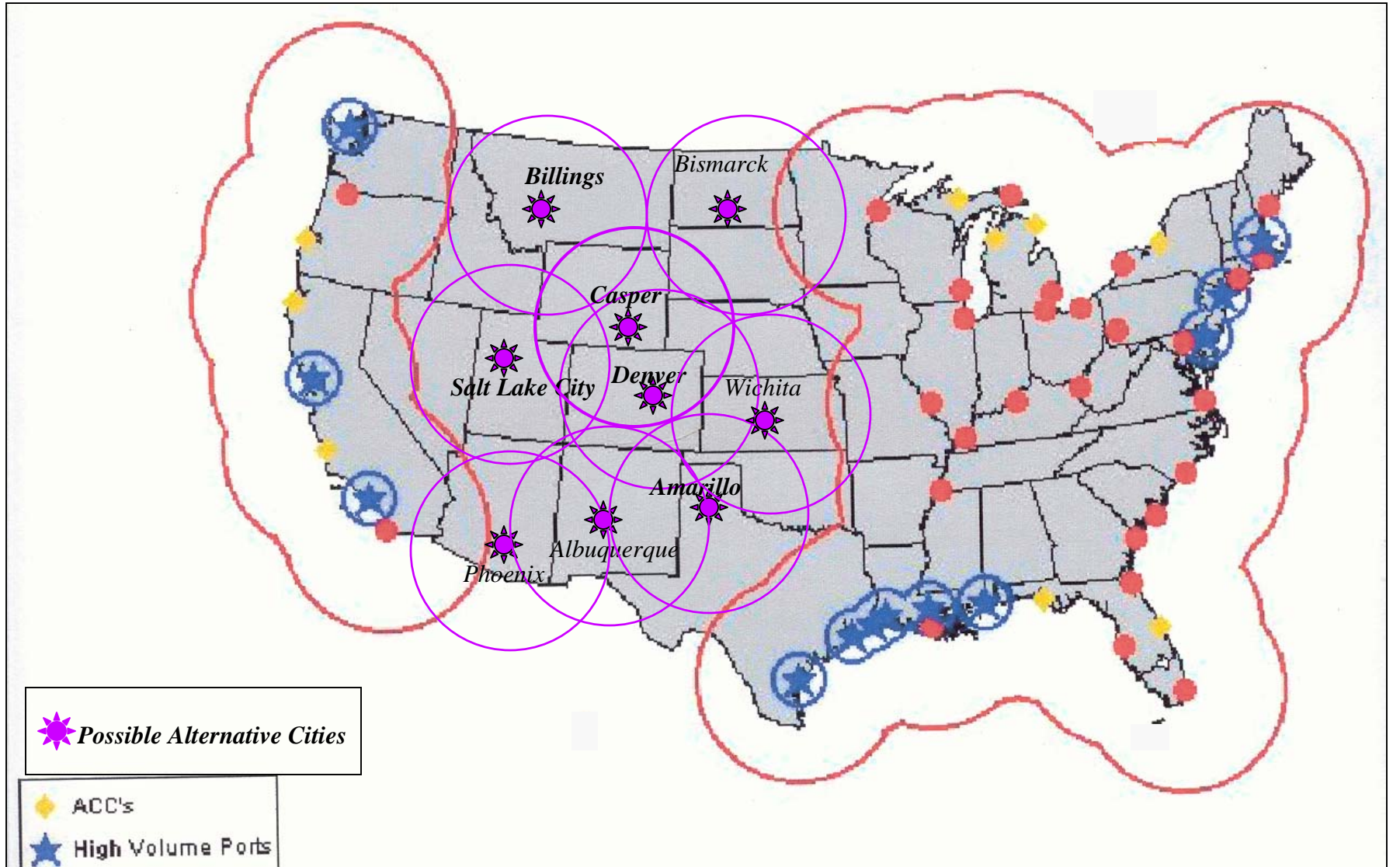
Salt Lake City, UT

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

Popo Agie  
Green  
Wind  
North Platt  
Shoshone  
Gros Ventre  
Powder

## WYOMING

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.***