

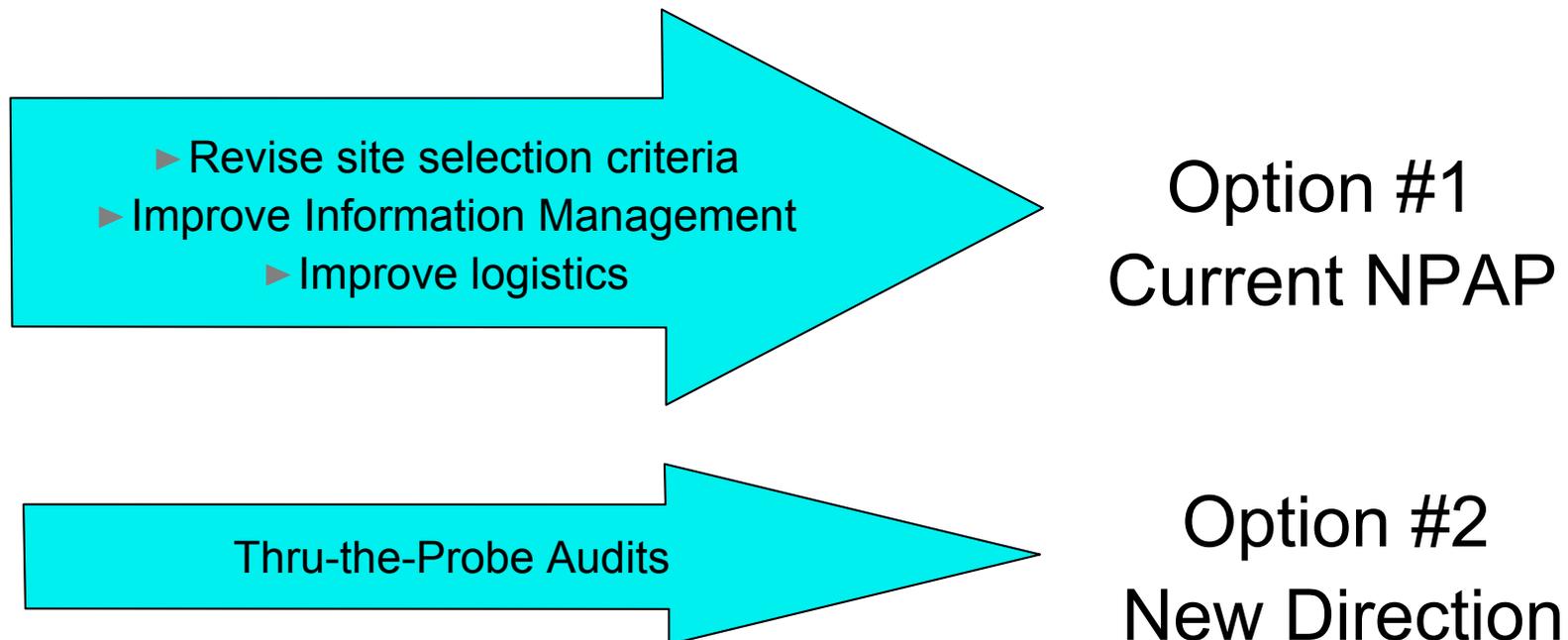
OAQPS
Quality Assurance
Activities
Performance Audit Programs:
Present and Future

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NPAP Program Improvements

- *Goal - Increase audits to acceptable level and create a more cost efficient program*

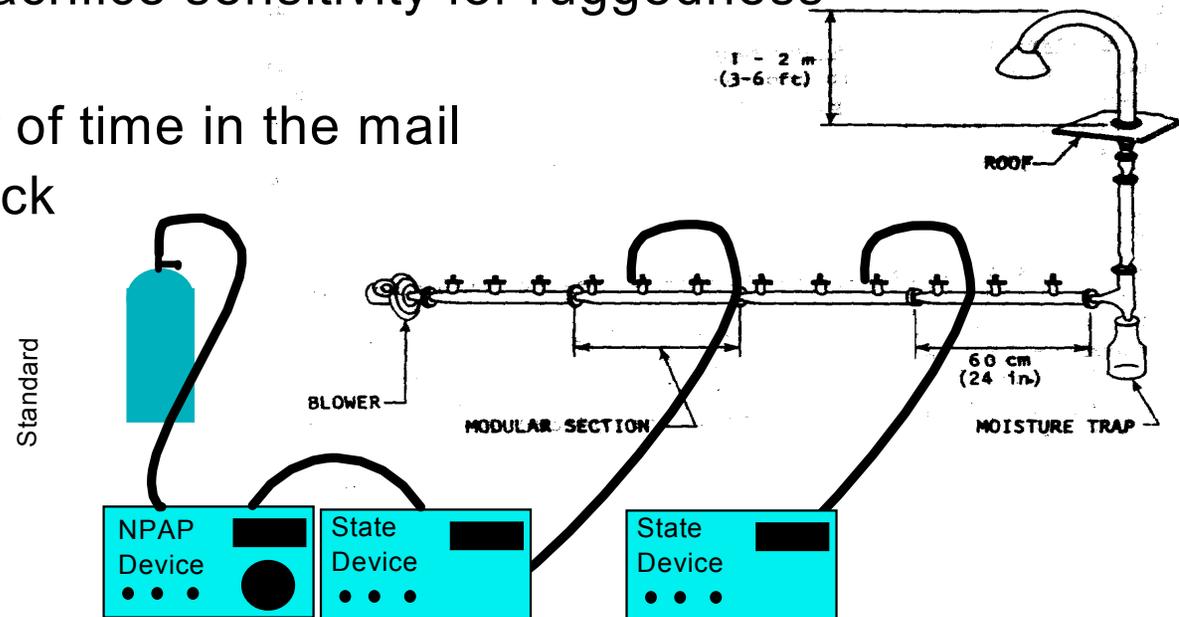
The Options



NPAP New Direction

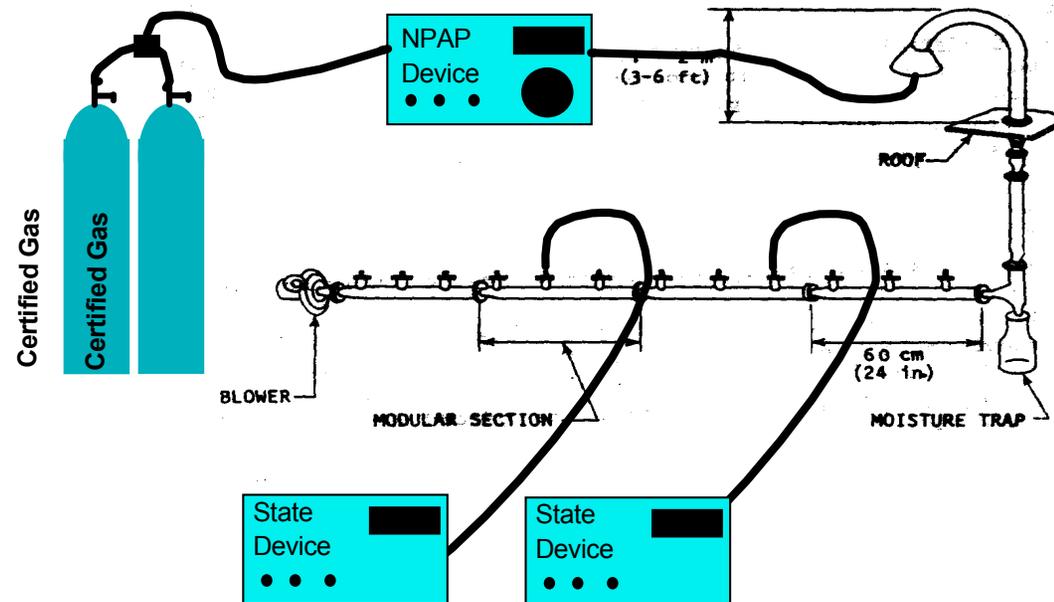
Through-the-Probe (TTP) Audits

- Current NPAP
 - ▶ Standards enter the samplers through a port in the back of the instrument;
 - ▶ disregards sample inlet and collection tubing where contamination or losses may occur.
 - ▶ Standard devices sacrifice sensitivity for ruggedness but still need TLC.
 - ▶ Devices spend a lot of time in the mail
 - ▶ No real time feedback

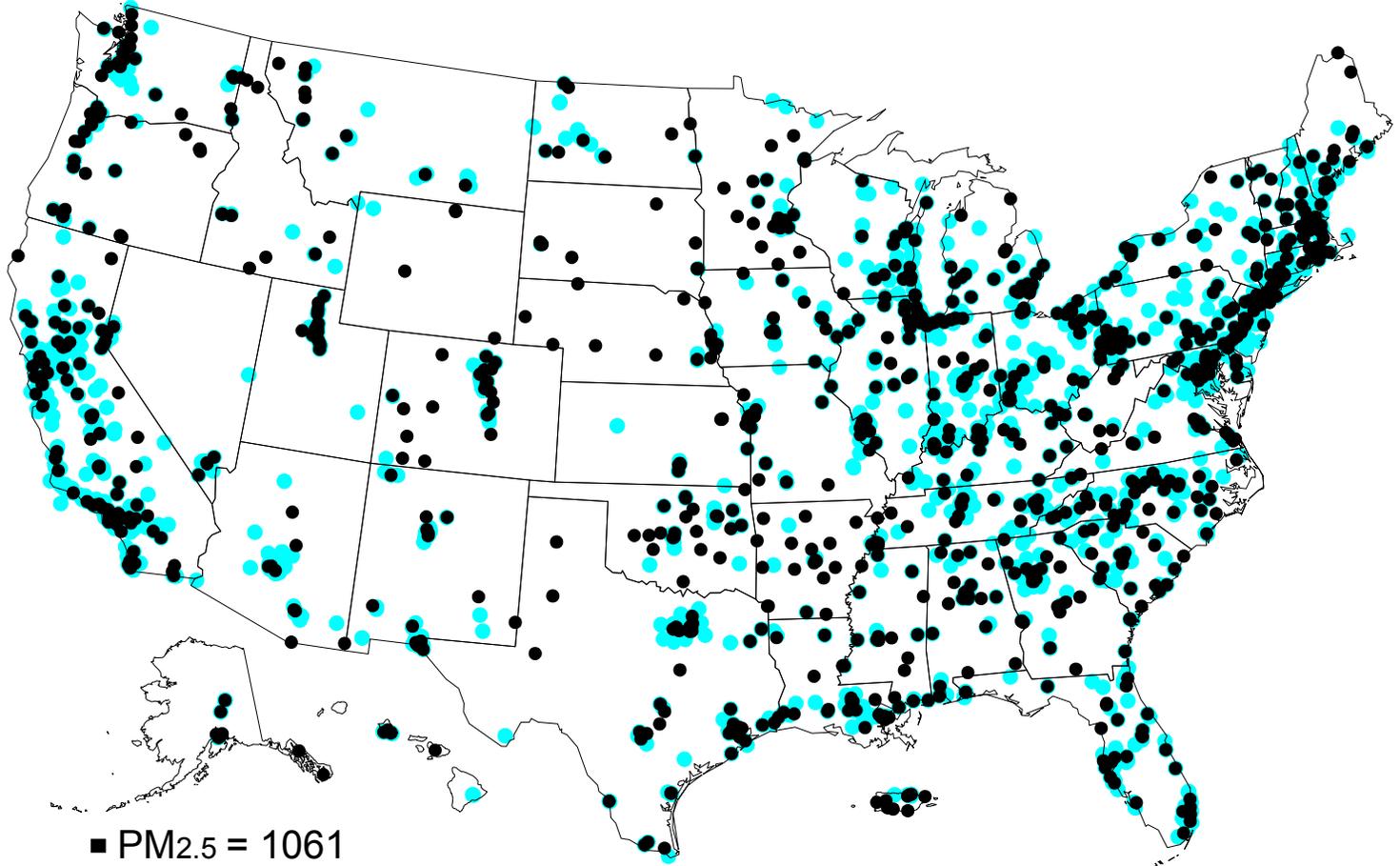


Through- the- Probe

- Evaluates entire sampling stream
- Equipment can be state of the art
- Little potential for damage
- More audits less down time
- Multipurpose uses



PM2.5 (black) & Other Criteria sans PM10 and Pb (cyan) Monitoring Sites



- PM2.5 = 1061
- Other Criteria = 1656
- Collocated = 426

8 labs * 45 weeks * 2 sites/week = 720 sites
NPAP audits completed in ~ 3 years

Audit Program Funding

Issue - funding for PE programs include a mix of EPA and STAG funds

- Discussed several funding options at OAQPS RTP/DC briefings
 - ▶ Solution
 - go after new funds (1 million recurring in RAD) for FY03
 - Short Term (FY01, 02) split costs between STAG and OAQPS for short term pilot with move to longer term STAG funded program

Summary for CY2003 NPAP+TTP: Implementation + Funding

- Implementation: Mailed Program Continues at a Reducing Level; TTP Starts Producing Results
- Funding: Audit Contract Support Divided in 4 Parts-
 - 1) Mailed Audits to Non-Pilot Regions
 - 2) \$ to EPA,ESAT for TTP Pilot Regions
 - 3) Buy 2 more TTP systems; use in 2004
 - 4) MOU+\$ with Reg7

PEP+TTP Implementation Plan: Already Occurring in 2003

- 1) RO Management Staff Agree to Support and Use
- 2) Pre-Receipt 1st Steps (PR1): OAQPS, PO, WAM-TO, \$; EPA Regional Property, Safety; ESAT-DC
- 3) PR2: Arrange EPA license plates, safe parking space for trailer and tow vehicle, 3-6 mos. PR; for GSA, must do by Dec PR
- 4) Property from RTP transferred to Region

Occurring Implementation Plan (Cont'd.)

- 5) EPA Staff Receive Audit Equipment-
Start Hands-on Manual and SOP Training
+Pre-Audit Tasks (ESAT now or later)
- 6) Receive Platform: Tag, park, maneuver,
power up, test, safety inspection +decals
- 7) Regional EPA does initial site selection,
arrangement discussions with S&Ls
- 8) Regional EPA does 1st audits, alone or
with ESAT Trainees

Occurring Implementation Plan (Cont'd.)

- 9) WAM Plans PEP+TTP sites with ESAT and Regional Air/QA staff
- 10) ESAT trainees audit sites (See Critical Plan Features)
- 11) Results reported to OAQPS

Critical Implementation Plan

Features for Combining PEP + TTP

:Expectations and Assumptions

- Draft SOP for Initial EPA Training of ESAT
- 1st Audits done by trained EPA staff (R5&7) or with ESAT staff trained by EPA (R6)
- Due especially to Bio-watch and some other start-up issues, 1st audits did not start until May(R5), July(R7) and August(6). R4 has no Platform yet. A full Yr Audit Schedule is not expected in 2003.

Annual PEP+TTP Expectations and Assumptions (Cont'd.)

- Regional EPA will select TTP sites at or very near PEP sites
- Annual Regional PEP Workload-audit 40 wks/yr; Annual TTP Wkld. Max. 50% PEP
- Do at least 12-15, Max 20 TTP+PEP audit weeks/yr
- Typical Expected PEP audit week= PEP sites visited min. of 3days/wk
- TTP+PEP=min. 3days PEPonly+1day TTP

Critical Implementation Features Expected in 2004

- Agreement with at Least 1 of the 1st 3 Regions; Perhaps a Sharing agreement
- Standard Gas Certification by ?: MOU, Audit Support Contract, Protocol Gas 3rd Party
- Regional Certification of some State (s)- expect Reg 5, then 9 to try 1st.
- Pilot Audit Data shared with S&Ls; 103\$??
- At Least 1 TTP Portable System

TTP Lab Front View



Roof Sampling Platform View



Lab and Tow Vehicle



Hook-up to Station



TTP Mobile Lab Interior



Summary

- Strategy for wise use of initiative funds have been developed
- NPAP program
 - ▶ Working with pilot Regions since 6/01; Labs in 5,6, and 7
 - ▶ 1st Test Audits this month (5/03) in Region 5
 - ▶ Have identified a number of additional candidate Regions/labs
 - ▶ Currently making purchases for 2 more Mobile Labs
 - ▶ Revise and expand SOP; Finish Implementation Plan
 - ▶ Develop and Test Portable System
 - ▶ Develop, test, and transition to more user friendly, less costly database management system for archive of past data, and entry, reporting and summary of new audit data
 - ▶ Cost-Benefit Data to S&Ls (&Regions); Evaluate for OK of 103\$