

memorandum

DATE: JUN 26 1987

REPLY TO
ATTN OF: RW-24

SUBJECT: Report of Participation by Karl Sommer in SRPO Audit of PNL,
Richland, Washington

TO: Carl Newton, RW-24

Discussion:

Attached as required by section 6.2.4 of OGR QIP 18.1 is a report of my participation in the QA Audit conducted by SRPO of PNL the week of June 15, 1987.



Karl G. Sommer, RW-24

Attachment:

cc w/att: J. Reese, SRPO
M. Gildner, BPMD

WM Record File <u>106.4</u>	WM Project <u>16</u>
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REPORT OF OGR PARTICIPATION IN SRPO
QA AUDIT OF PNL
RICHLAND, WA.

AUDITING ORGANIZATION: Salt Repository Project Office

AUDITED ORGANIZATION: Pacific Northwest Laboratory

DATES OF AUDIT: June 16-18, 1987

AUDIT TEAM MEMBERS:

M. L. Gildner, BPMD	- Audit Team Leader
T. F. Orlin, BPMD	- Auditor
K. G. Sommer, DOE-OGR	- Auditor
L. Meyers, ONWI	- Technical Observer
S. R. Brown, BPMD	- Auditor

AUDIT SCOPE: To verify the implementation of corrective actions provided in response to SRPO audit PNL-86-14-E. In addition, the implementation of the PNL QA program associated with the following Performance Assessment activities will be verified:

- o CFEST Inverse
- o Hydrocoin
- o Regional boundaries for local scale simulation
- o Local scale groundwater travel time estimates

The waste package portion of the audit will review the following activities:

- o Task 03 Waste Form Evaluation
 - o Sectioning and transfer of ATM 103 from the MCC
 - o Preparation of ATM 101 specimens and preparation for the anoxic tests including the use of resins to concentrate uranium
 - o Data and report on the Pu(VI) solubility studies
- o Task 06 General Corrosion Studies
 - o Environmental testing
 - o Electrochemical studies BT-4 and BT-5

AUDIT BASIS DOCUMENTS:

- o PNL QA Plans WTC-003 and WTC-004
- o PNL Administrative Procedures
- o PNL Technical Procedures
- o PNL Test Plans

SUMMARY OF AUDIT:

The audit team was divided into three (3) teams, with audit attribute responsibilities as follows:

<u>Team No. 1</u>	<u>Team No. 2</u>	<u>Team No. 3</u>
<u>Orlin Meyers</u>	<u>Gildner Sommer</u>	<u>Brown</u>
1. Static Corrosion Tests	2. Technical Reviews	8-20. Verification of Corrective Actions to Previous Audit PNL-86-14-E
4. Electro-Chemical Studies BT4 & BT5	3. Transfer & Assignment of Test Material 103 & 101	
5. Corrosion Fatigue Testing SRP-WPP-19	6. Spent Fuel Leach Testing SRP-WPP-41	
7. Slow Strain-Rate Studies SRP-WPP-17		

The Audit Team Leader, Max Gildner, conducted a very professional audit and was well informed regarding the QA and work requirements on the PNL activities.

Prior to the pre-audit meeting with PNL personnel, the Audit Team Members met on June 16, 1987, to discuss/review planned audit scope and audit activities.

The audit revealed several concerns during the conduct of the audit cycle. Each concern was reviewed during the daily briefings with PNL management personnel.

The ATL reviewed the teams joint observation (1 total) during the final close-out meeting. Details as follows:

Observation:

SRPO accepted PNL's proposed corrective action for observation PNL-86-14-E-05 (from previous audit September, 1986) called for a management assessment to be completed and a report issued by June 30, 1987.

The management assessment will not be completed as committed by PNL. PNL failed to submit a revised response to SRPO for approval prior to being unable to meet the requirement.

EVALUATION OF CONDUCT OF THE AUDIT:

The audit was well conducted, and very professional. The Audit Team Members were experienced, well trained, and were familiar with the program requirements.

The detailed checklist was well developed and contained adequate questions to verify specific PNL program attributes to assess implementation of the PNL QA Program.

EVALUATION OF AUDITING-FOR-EFFECTIVENESS:

SRPO employed the A-F-E method during this audit --- the checklist was developed to determine both programmatic and product quality problems.

COMMENTS:

1. It is unfortunate that top level management at PNL, even after committing to perform a management assessment (the first on the PNL SRPO activities) have not, in the writer's opinion, shown a positive attitude toward the QA Program and contract requirements -- including licensing requirements for a Level 1 activity.
2. DOE/HQ/OGR should reconsider the planned NRC conducted mini-audit of specific PNL activities (planned for last quarter, 1987) pending review of all details upon completion of the PNL management assessment. In the writer's opinion, PNL are not ready for a NRC mini-audit.
3. It is recommended SRPO conduct an audit or surveillance, after completion of the PNL management assessment, and prior to any additional discussions with NRC regarding the conduct of a mini-audit.
4. The writer noted (since participation in the September, 1986 audit of PNL) an improvement, at the staff and line levels, in the general attitude toward QA, also in specific work performance areas.

RECORD OF CORRESPONDENCE CONCURRENCE AND DISTRIBUTION

SUBJECT: Report of SRPO Audit of PNL

FROM: K. G. Sommer, RW-24

TO: C. Newton, RW-24

PC CODE: KS 86

ORIGINATOR: KARL SOMMER, 6-1639

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CONCURRENCES:

K.G. Sommer 6,26,87

K. Sommer, RW-24