

Mr. John Grantham
 State of Washington
 Department of Ecology
 Nuclear & Mixed Waste Program
 P. O. Box 47600
 Olympia, WA 98504-7600

FLUOR DANIEL, INC.



Date: June 4, 1993

Reference: Hanford Waste Vitrification Plant
 DOE Contract DE-AC06-86RL10838
 Fluor Contract 8457

Transmittal No.: WDOE-449

Dear Mr. Grantham:

TRANSMITTAL

We enclose 1 copy of the items listed below. These are issued per US-DOE request.

Response due to Fluor: N/A
 Responds to: N/A

| NUMBER | REV | DATE | TITLE |
|-----------------------------|------|-------|--|
| SEE TRANSMITTAL ATTACHMENTS | ---- | ----- | <p>INFORMAL REVIEW OF THE VITRIFICATION BUILDING SAMPLE CELLS ANALYTICAL CELLS AND ANALYTICAL LABORATORY.</p> <p>PLEASE SEE MEMO 7F131-93-071</p> <p>NOTE: THESE DRAWINGS ARE FOR INFORMATION ONLY AND ARE FURNISHED AS A PREVIEW TO AN INFORMAL INFORMATION EXCHANGE WORKSHOP. THIS WORKSHOP WILL ORIGINATE VIA TELEVIEDO CONFERENCE FROM FLUOR DANIEL, IRVINE ON JUNE 21, 1993, STARTING AT 1:00 P.M.</p> |

Reference: FRP-977, FUP-486

Distribution:

R. L. Long: DOE-RL, w/0
 TWP/AME Corresp Cntrl Cntr, MSIN A5-10
 (GENERAL), w/0
 P. Felise, WHC-RL (MSIN G6-06), w/0
 Environmental Data Management Center
 (MSIN H6-08), w/0
 D. Duncan, US EPA, Region X, w/0

Very truly yours,

R. S. Poulter
 R. S. Poulter
 Project Director



BD
 RSP:BED:lh

Westinghouse Hanford Company

Internal Memo

From: HWVP A/E Resident
Phone: (714) 975-6933
Date: May 27, 1993
Subject: FACILITY DESIGN REVIEW 6 AND 7 WORKSHOPS - CHANGE IN PLANS

7F131-93-071

| | | | | |
|-----|-----------------|-------|--|-----------|
| To: | C. A. Augustine | G6-02 | R. E. Menard | G6-04 (3) |
| | D. E. Baide | G6-16 | J. D. Phillips  | G6-06 |
| | S. L. Engstrom | G6-04 | M. J. Rackley | G6-02 |
| | R. U. Elwell | G6-04 | L. D. Swenson | G6-06 (2) |
| | P. Felise | G6-06 | | |
| cc: | J. R. Baker | G6-06 | HWVP DPC | G6-51 |
| | K. R. Shah | G6-06 | FTC File/LB | |
| | E. T. Weber | G6-08 | | |

Reference: Internal Memo, F. T. Clifton to C. A. Augustine, et al., "Facility Design Review 6 and 7 Workshops," 7F131-93-060, dated May 7, 1993.

The subject Facility Design Review workshops were announced by the referenced Memo, and were tentatively scheduled for June 7 and 21, 1993, respectively, as televideo conferences. This memo invokes changes and provides additional guidance as discussed below.

Facility Review 6.

This will be a conventional workshop with no use of video. The reason for the change is that the scope of the review was increased dramatically by addition of the Melter Cell. The review thus became too large for the use of video. For your information, a draft agenda is attached.

It is very important to note that the layout drawings being reviewed at this time may not precisely coincide in certain areas with production drawings currently included with construction packages (especially B210A). Reviewers are reminded that this review package is based on P&ID drawings issued in March 1993, whereas, B210A drawings are based on P&IDs from last October. Also, all layout information shown below the 716-foot level (except for piping) should be considered suspect, since B210A may be more current in some areas, or the review media may not be current with latest P-package updates.

Again, I wish to emphasize the importance of advance comments. Advance comments allow Fluor to have a head start in addressing reviewers' concerns and also provide a more focused discussion for the meeting itself.

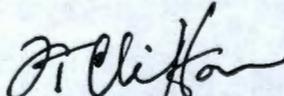
C. A. Augustine, et al.
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Facility Review 7.

This televideo meeting is modified to be an informal information-exchange workshop. A thorough facility review of the analytical facility and/or cells is currently deemed to be premature at this time, especially in view of potential changes from possible 4X redesign activities. Therefore, no advance comments are requested, and no comment resolutions will be necessary. Target media and additional instructions will be issued to reviewers at least two weeks prior to the meeting, scheduled for 1-4 PM, June 21.

Please contact me if you have questions.


F. T. Clifton
HWVP A-E Resident

ftc/cah

Attachment

C. A. Augustine, et al.
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bcc (information only):

| | | | |
|-------------|---|----------------|---------------|
| RL | - | R. L. Long | R3-73 |
| | | J. E. Navarro | Irvine |
| UCAT | - | E. D. Thompson | Irvine |

DRAFT AGENDA **FACILITY REVIEW 6**

Melter Cell and Remote Equipment Decontamination Cell (REDC)

Location: Fluor Daniel - Irvine, California - Design Review Area

Monday, 7 June, 1993

- 12:30 - Opening remarks - Roy Bullis (Fluor) and Frank Clifton (WHC).**
- 12:45 - 4:00** Informal clarifications, questions and answers with Fluor disciplines in order listed below. Others disciplines will be "on-call" on an as needed basis. Clarifications will be on a drawing by drawing basis.
- 1. Mechanical**
 - 2. Piping**
 - 3. Electrical**
 - 4. HVAC**
- 4:00 - 4:45** Review of plastic model with disciplines as required for questions and answers (if needed).

Tuesday, 8 June, 1993

- 7:30 - 10:30** WHC and UCAT prepare and consolidate comments relating to facility operability/constructability.
- 10:40 - 11:30** WHC and UCAT present consolidated comments (hard copy and disk if possible) to Fluor.
- 11:30 - 4:30** Fluor assigns responsibility for comment responses to appropriate Fluor disciplines. Fluor Disciplines/Project formulate preliminary responses to comments.

Wednesday, 9 June, 1993

- 7:00 - 9:00** Fluor finalizes responses in a format suitable for team review and final resolution.
- 9:00 - 12:00** Fluor/WHC/UCAT discussion and final agreed resolution to all comments.

JUNE 4, 1993

TRANSMITTAL ATTACHMENT # 1

INFORMAL REVIEW
SAMPLE AND ANALYTICAL CELLS, ANALYTICAL LABORATORY
DRAWING LIST

MECHANICAL DRAWINGS

H-2-120015 SHT 1 REV A XE-360-001W PNEUMATIC RABBIT SYSTEM
* SHT 2 REV A
* SHT 3 REV A
SHT 4 REV A
SHT 5 REV A
SHT 6 REV A
SHT 7 REV A
SHT 8 REV A

H-2-120360 SHT 1 REV A ANALYTICAL CELL EQUIPMENT ARRANGEMENT
SHT 2 REV A
SHT 3 REV A
SHT 4 REV A
SHT 5 REV A
SHT 6 REV A
SHT 7 REV A

H-2-120361 SHT 2 REV A SAMPLE CELL EQUIPMENT ARRANGEMENT
SHT 3 REV A
SHT 4 REV A
SHT 5 REV A
SHT 6 REV A
SHT 7 REV A
SHT 8 REV A

* MELTER CELL DRAWINGS FURNISHED FOR REFERENCE AND CONTINUITY OF SYSTEM

PROCESS/MECHANICAL DRAWINGS

5-SK-5491 SHT 69 REV A ANALYTICAL FACILITY LAYOUT-MEZZANINE
PLAN ELEVATION 728-4" (SEE ATTACHMENT 3)

PIPING DRAWINGS

SK-5-5491 SHT 69A REV A ANALYTICAL FACILITY PIPING LAYOUT DRAIN
SYSTEMS, MEZZANINE LEVEL PLAN ELEV. 728-
4"

TRANSMITTAL ATTACHMENT #2

INFORMAL REVIEW
SAMPLE AND ANALYTICAL CELLS, ANALYTICAL LABORATORY

GENERAL NOTES

The drawings and sketches included are unchecked and still in the development stage. Drawings will be completed for final design issue while sketches are used to support development of final design drawings, construction packages, procurement packages, and the model. These documents should be reviewed for concept presented, bearing in mind that some details, instrumentation, etc. may not be shown.

The listed items are provided as a clarification to reviewers.

1. The following CRs are proposed for these areas but are not depicted on documents:
 - HWVP-0941 P17 Lessons Learned
 - HWVP-0942 P17 Instrumental Analysis Direction Study
- ICP-AES Direction (ON HOLD)
 - HWVP-0987 Alpha Shield Removal and Installation
 - HWVP-XXXX Analytical Laboratory Subdivision (ON HOLD)
 - HWVP-0994 Sample and Analytical Cells Lighting Design
Modifications
2. The First Floor Mezzanine, Facilities Review No. 2, provided a cursory review of utilities to the Analytical/Sample Cells and Analytical Lab. See Conference Notes CN-832.
3. A review of HVAC for the Sample/Analytical Cells and Analytical Lab was also covered in Facility Review No. 2. See Conference Notes CN-832.

ANALYTICAL FACILITY LAYOUT - MEZZANINE LEVEL PLAN/SOUTH END

EQUIPMENT LIST
DWG 5-SK-5491 SH. 69 REV A

| ITEM NO. | EQUIPMENT NUMBER | HEIGHT/FEET | DESCRIPTION |
|----------|------------------|-------------|------------------------------------|
| 1 | | | Electric Equip/Vacuum System |
| 2 | DM-640-001 | | Deionized Water Pkg. Unit |
| 4 | HT-640-002V | | Hot Water Unit |
| 5 | | | Refrigerator |
| 6 | LH-640-019 | 10 | Spare Hood |
| 7 | LH-640-017 | 10 | Fume Hood for Cold Work |
| 8 | LH-640-012 | 10 | Spectrometer Hood |
| 9 | LH-640-020 | 10 | Lazer Fluormeter Hood |
| 10 | LH-640-013 | 10 | Actinide Separation Hood |
| 11 | LH-640-015 | 10 | AT Flame Hood |
| 12 | LH-640-021 | 10 | I-129 Separation Hood |
| 13 | LH-640-014 | 10 | TOC Hood |
| 14 | LH-640-022 | 10 | BETA Separation Hood #1 |
| 15 | LH-640-023 | 10 | BETA Separation Hood #2 |
| 16 | LH-640-008 | 10 | ICP Sample Preparation Hood |
| 17 | LH-640-009 | 10 | Visual Test/pH/SPG Hood |
| 18 | LH-640-011 | 10 | Dionex Hood |
| 19 | LH-640-010 | 10 | Oven Hood |
| 20 | LH-640-005 | 10 | Sample Preparation Hood |
| 21 | GB-640-001 | | Sample Recv. Glove Box |
| 22* | | | Step-Off Pad |
| 23 | | | Safety Shower/Eyewash |
| 24 | LE-640-005 | | ICP |
| 25 | LH-640-007 | 10 | ICP/AAS Hood |
| 26* | | | Step-Off Pad |
| 27 | LH-640-006 | 10 | Decontamination Hood (006) |
| 28 | MD-640-001 | | Drum Handling System |
| 29 | MR-640-004 | | Monorail |
| 30 | MR-640-003 | | Monorail |
| 31* | | | Step-Off Pad |
| 32 | LH-640-003 | | Anal. Cell Service Room Hood (003) |
| 33 | LE-640-004 | | ICP Terminal/Equipment |
| 34 | GB-640-002 | | Hot ICP Glove Box |
| 35 | XE-630-001V | | Rabbit System (Anal. Cells) |

ANALYTICAL FACILITY LAYOUT - MEZZANINE LEVEL PLAN/SOUTH END

EQUIPMENT LIST
DWG 5-SK-5491 SH. 69 REV A

| ITEM NO. | EQUIPMENT NUMBER | HEIGHT/FEET | DESCRIPTION |
|----------|------------------|-------------|---------------------------------------|
| 36 | MR-630-002 | | Monorail (Anal. Cells) |
| 37 | TR-630-005-006 | | Sample Cart (Anal. Cells) |
| 38 | | | Shielded Door/Serv Window/Gloves |
| 40 | TR-630-001-003 | | Transfer Drawer |
| 41 | MR-640-001 | | Monorail (Sample Cell Svc. Rm.) |
| 42 | LH-640-002 | | Sample Cell Service Rm. Hood |
| 43* | | | Step-Off Pad (Sample Cell Svc. Rm.) |
| 45 | XE-630-001V | | Rabbit System (Sample Cell Service) |
| 46 | MR-630-001 | | Monorail (Sample Cell) |
| 47 | TR-630-004 | | Sample Cart (Sample Cell) |
| 49 | SA-630-002-014 | | Liquid Sampling Modules (Sample Cell) |
| 50 | SA-630-017-020 | | Gas Sampling Modules (Sample Cell) |
| 52* | TR-630-012V | | Sample Conveyor |
| 53* | MR-640-005 | | Operating Gallery Hoist |
| 54* | | | RF Generator |
| 55 | | | AAS Bench |
| 56 | MR-640-002 | | Monorail |
| 57 | | | Space for Future ICP |

* Not Shown

TRANSMITTAL ATTACHMENT #3

ANALYTICAL FACILITY LAYOUT - MEZZANINE LEVEL PLAN/NORTH END

EQUIPMENT LIST
DWG 5-SK-5491 SH. 69 REV A

| ITEM NO. | EQUIPMENT NUMBER | HEIGHT/FEET | DESCRIPTION |
|----------|------------------------|-------------|--|
| 12 | SA-630-021,022,024,027 | 10'0" | Gas Sampling Modules |
| 13 | LH-640-001 | | Gas Sample Hood (Room 1991) |
| 17 | LE-640-008A | | Counting Room Equipment (Alpha Spectrometer) |
| 18 | LE-640-008B | | Counting Room Equipment (Gamma Analyzer - LEPS) |
| 19 | LE-640-008C | | Counting Room Equipment (Gamma Analyzer - HPGE) |
| 20 | LE-640-008D | | Counting Room Equipment (Data Processing Terminal) |
| 21 | LE-640-008E | | Counting Room Equipment (Liquid Scintillation Spectrometer) |
| 22 | LE-640-008F | | Counting Room Equipment (ALPHA/BETA Proportional Counter) |
| 23 | LE-640-008G | | Counting Room Equipment (Shielded Cabinet) |
| 24 | SA-630-025,026 | 10'0" | SRAT/SME Vent Gas Sampling Module |