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Fluor Hanford, Inc.  
P.O. Box 1000  
Richland, Washington 99352

**FLUOR** GLOBAL SERVICES

August 10, 2000

FH-0004267

Mr. S. H. Wisness, Director  
Office of Site Services  
U. S. Department of Energy  
Richland Operations Office  
Post Office Box 550  
Richland, Washington 99353

**RECEIVED**  
FEB 05 2003

**EDMC**

Dear Mr. Wisness:

Reference: Letter, T. Gao, Ecology to L. E. Borneman, FH, "Alarm Light for Sump 6 Leak," dated August 1, 2000. 53451

With this letter Fluor Hanford is providing the response to the request for information in the above reference concerning a lighted alarm annunciator for "Sump 6" in the 219-S Waste Handling Facility Operating Gallery.

Attached for your concurrence and transmittal is the response letter. Please transmit the attached letter by August 14, 2000.

Should you have any questions, please contact L. E. Borneman at 373-2821.

Sincerely,



D. L. Renberger, Vice President  
Analytical Services

Attachment

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AUG 10 2000

DOE-RL/RLCC

Ms. Gao  
Nuclear Waste Program  
State of Washington  
Department of Ecology  
1315 West 4<sup>th</sup> Avenue  
Kennewick, Washington 99336-6018

Ms. Gao:

**RESPONSE TO AUGUST 1, 2000 ALARM LIGHT FOR SUMP 6 LEAK REQUEST FOR INFORMATION.**

This letter is in response to your letter to Ms. Lucinda Borneman dated August 1, 2000. In your letter you requested information pertain to your concern for a lighted alarm annunciator for "Sump 6" in the 219-S Waste Handling Facility Operating Gallery.

To address your specific issues and/or concerns the following information is provided:

- 1. The exact location of Sump 6.** Sump 6 is located at the bottom of Tank Cell B of the 219-S Facility (see drawing H-2-5382 sheet 1). Sump 6 is the sump for Tank 103 and is now isolated from the tank 104 section of Cell B by a grout plug and the stainless steel cell liner for Tank 104 (see drawing H-2-825524 sheet 1). Tank 103 is physically isolated from the active portions of the 219-S facility (see drawing H-2-827566 sheet 3) and is considered to be "Inactive". Tank 103 has been emptied and flushed and will remain in place until closure of the 219-S Facility.
- 2. The initial date the alarm and the response taken.** Sump 6 alarmed Low Level (1.25 inch level) on June 30, 2000 at approximately 0400. The alarm was responded to immediately. At approximately 0800 on June 30, 2000 an attempt was made to pump the sump, but the alarm did not clear. Because the pumping evolution did not clear the alarm it was believed that there was a problem with alarm system. On July 1, 2000 a work package was initiated to trouble shoot and repair the sump alarm system. On August 1, 2000 the alarm system was trouble shot with no problems found. The sump was then pumped again, the pumping evolution was successful. The contents of sump 6 were pumped into Tank 104 and the alarm cleared.

It should be noted that during the time period before the sump was pumped and the Low Level alarm was cleared the second sump alarm, High Level (8 inch) alarm did not trip. Approximately 9.45 gallons of additional liquid would be required to alarm the High Level (8 inch) alarm. To alarm the 1.25 inch alarm takes approximately 0.75 gallons of

Ms. Gao  
Page 2

liquid in the sump. Therefore between 0,75 and 9.45 gallons of liquid was pumped from Sump 6 to Tank 104.

The source of the liquid in the sump is from surface water that finds its way into the sump through the cell key ways and piping penetrations. Surface water intrusion into the facility has been a historic condition. Surface water cannot enter the active portions of the 219-S Facility cells due to the stainless steel liner.

- 3. Request for work package application and any response and the scheduled repair date.** There seems to have be some misunderstanding of the work package process. DOE/RL is not involved in work package nor is there any "work package application." The alarm condition has been cleared on August 1, 2000.

Abnormal conditions in the 219-S TSD unit are reported to the Washington Department Of Ecology as required by the Dangerous Waste Regulation WAC 173-303-145(2), 360 (2)(d), 40 CFR 265.196(d) and the Occurrence Reporting Process. I look forward to discussing with you additional situations that you would like to be notified.

Questions pertaining to this letter should be addressed to Mr. James Zeisloft of my staff at 372-0188 or Ms. Lucinda Borneman, FH, at 373-2821.

S. H. Wisness, Director  
Office of Site Service  
Environmental Regulation

Attachments: 4

cc w/encls:  
L. E. Borneman, FH  
E. M. Bowers, RL  
R. J. Giroir, FH  
J. J. Wallace, Ecology  
J. H. Zeisloft, RL

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ATTACHMENT

FH-0004267

**INFORMATION CLEARANCE FORM**  
**219-S FACILITY DRAWINGS**

**Consisting of 7 pages**  
**including cover pages**

# INFORMATION CLEARANCE FORM

<b>A. Information Category</b> <input type="checkbox"/> Abstract <input type="checkbox"/> Journal Article <input type="checkbox"/> Summary <input type="checkbox"/> Internet <input type="checkbox"/> Visual Aid <input type="checkbox"/> Software <input type="checkbox"/> Full Paper <input type="checkbox"/> Report <input checked="" type="checkbox"/> Other _____	<b>B. Document Number</b> SEE ATTACHED LIST OF DRAWINGS <b>C. Title</b> 219-s Facility Drawings  <b>D. Internet Address</b>
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<b>E. Required Information</b> 1. Is document potentially Classified? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes (MANDATORY)  _____ Manager's Signature Required If Yes <u><i>[Signature]</i></u> ADC <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes Classified ADC Signature Required  2. Internal Review Required? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes If Yes, Document Signatures Below  Counsel _____ Program _____  3. References in the Information are Applied Technology <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes Export Controlled Information <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes	4. Does Information Contain the Following: (MANDATORY) a. New or Novel (Patentable) Subject Matter? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes If "Yes", Disclosure No.: _____ b. Information Received in Confidence, Such as Proprietary and/or Inventions? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes If "Yes", Affix Appropriate Legends/Notices. c. Copyrights? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes If "Yes", Attach Permission. d. Trademarks? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes If "Yes", Identify in Document. 5. Is Information requiring submission to OSTI? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes If Yes UC- _____ and B&R- _____ 6. Release Level? <input checked="" type="checkbox"/> Public <input type="checkbox"/> Limited 7. Charge Code <u>101750C</u>
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**F. Complete for a Journal Article**

1. Title of Journal N/A

**G. Complete for a Presentation**

1. Title for Conference or Meeting N/A

2. Group Sponsoring \_\_\_\_\_

3. Date of Conference \_\_\_\_\_

4. City/State \_\_\_\_\_

5. Will Information be Published in Proceedings?  No  Yes

6. Will Material be Handed Out?  No  Yes

<b>H. Author/Requestor</b> <u>D B BEAGLES</u> (Print and Sign)	<b>Responsible Manager</b> <u>R J GIRIOR</u> (Print and Sign)
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I. Reviewers	Yes	Print	Signature	Public: Y/N (If N, complete J)
General Counsel	<input type="checkbox"/>	_____	_____	Y / N
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Other	<input type="checkbox"/>	_____	_____	Y / N
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**J. If Information Includes Sensitive Information and is not to be released to the Public indicate category below.**

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<input type="checkbox"/> Personal/Private	<input type="checkbox"/> Export Controlled
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<input type="checkbox"/> UCNI	



K. If Additional Comments, Please Attach Separate Sheet

**INFORMATION CLEARANCE FORM 8/9/00 219-S DRAWINGS**

**Drawing H-2-827566 Rev 0 Sheet 3, "Piping Cell B East Elevation**

**Drawing H-2-5382 Sheet 1 and 2, "222-S Aqueous Waste Disposal Facility  
Retention & Neutralization Bldg."**

**Drawing H-2-827569 Rev 0 Sheet 6, "Piping Misc. Details"**

**Drawing H-2-825524 Rev 3 Sheet 1, "Structural Liner B Installation Plan Sections  
and Details"**

## CORRESPONDENCE DISTRIBUTION COVERSHEET

Author *From*  
 L. E. Borneman, FH  
 D. B. Beagles, FH

Addressee  
 Ms. T. Gao, DOE

Correspondence No.  
 FH-0004267

Subject: **RESPONSE TO AUGUST 1, 2000 ALARM LIGHT FOR SUMP 6 LEAK REQUEST FOR INFORMATION**

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