



UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
WASHINGTON, D. C. 20555

March 29, 1984

NOTE TO: Gus Lainas, A/D for Operating Reactors, DL  
FROM: Robert Capra, Technical Assistant, DSI  
SUBJECT: PLANT-SPECIFIC LICENSING ACTION CHANGE FOR DSI

Reference: Memorandum, Roger J. Mattson to Darrell G. Eisenhut,  
dated 11/14/83, Subject: DSI's FY84 Plant-Specific  
OR Action Schedule

Based upon the attached Division of Licensing Work Request, DSI has accepted the following plant-specific licensing action:

Plant: Trojan DSI Branch: ASB  
TAC No: 49636 Scheduled Target Date: 04/09/84  
Subject: Spirit Lake Blockage

Unless otherwise indicated in the space below, DSI has accepted the work by the scheduled target date without impacting other scheduled OR actions.

This note represents change number 249 to the referenced memorandum.

*R. Capra*  
R. Capra, T/A, DSI

Attachment:  
As stated

cc: R. Mattson  
DSI AD L. Rubenstein  
DSI BC D. Parr  
ORPM ~~C. H. Harnell~~  
J. Thoma  
DSI File

8508150325 850715  
PDR FOIA  
BELL85-353 PDR

C/36

Routing Slip

Priority 1

## TRANSMITTAL OF DIVISION OF LICENSING WORK REQUEST

SPECIAL HANDLING - PROCESS WITHOUT DELAY

TAC#-Plant Name-Title 49636 - Trojan - Spirit Lake blockage

Description of review requested: Review safety aspects of blockage of intake structure w/mud, possibly in coincidence with loss of off-site power and loss of fire pumps. Both USGS and PSE predict large sediment deposition on a break-out of Spirit Lake. See PSE 11-21-80 letter + ONI-15 ONI-53.

Requested target date June 1, 1984

Basis for request date: Trojan s/u date is July 1.

SEQUENCENAMEDATE

1. Originator

C. Trammell

2. OR Branch Chief

JR Miller

3. OR A/D

G. Laines

☐ This action is requested to be added to the review branch's current commitments

☐ This action is requested to be completed in lieu of TAC# \_\_\_\_\_ for \_\_\_\_\_ (Plant Name)

4. Review Branch Chief

O. Parr ODP3/20/84

5. A/D

L. Rubenstein3/21/84

6. Division Director

R. Mattson3/29/84

☐ This action is accepted for completion with a target date of 4/9/84

☐ This action is accepted for completion with a target date of \_\_\_\_\_ in lieu of completing TAC# \_\_\_\_\_ in this fiscal year

7. Return to Review Branch Chief for assignment of reviewer and retention of work package

F. Clemensen  
(Reviewer's Name)

FCC  
(RAMS Initials)

8. Return routing slip to originator

FROM

C. Trammell

MAIL STOP

428

PHONE

27389

# ROUTING AND TRANSMITTAL SLIP

Date

9/14/84

TO: (Name, office symbol, room number, building, Agency/Post)

Initials

Date

1. Charlie Traummel A32

2. Friday 9/14 called Chuck Seale  
FEMA. He'll check Monday

3. RAY GONZALES

4.

Action	File	Note and Return
Approval	For Clearance	Per Conversation
As Requested	For Correction	Prepare Reply
Circulate	For Your Information	See Me
Comment	Investigate	Signature
Coordination	Justify	

## REMARKS

On Aug 3, your A/D sent my AD a memo requesting that we issue an SER on Trojan/Mt. St. Helens. We can't really do that at this time because USGS hasn't published its report yet. However, we want to respond to Kainer's memo. Attached is our proposed memo. If you have any problems with it or if it's alright let me know. Ballard doesn't want to send it out unless it's OK with you.

DO NOT use this form as a RECORD of approvals, concurrences, disposals, clearances, and similar actions

FROM: (Name, org. symbol, Agency/Post)

R. GONZALES

Room No.—Bldg.

P-208

Phone No.

281/7

5041-102

GPO : 1981 O - 341-529 (109)

OPTIONAL FORM 41 (Rev. 7-76)  
Prescribed by GSA  
FPMR (41 CFR) 101-11.206

C/57

MEMORANDUM  
OF CALL

Previous editions usable

TO:

CT



YOU WERE CALLED BY-



YOU WERE VISITED BY-

Chuck Steele

OF (Organization)

FEMA Seattle



PLEASE PHONE



FTS



AUTOVON

396-0287



WILL CALL AGAIN



IS WAITING TO SEE YOU



RETURNED YOUR CALL



WISHES AN APPOINTMENT

MESSAGE

Chuck Steele

Chuck Steele

Study Report

RECEIVED BY

Amey

DATE

9-24-78

TIME

63-116 NSN 7540-00-634-4016

STANDARD FORM 63 (Rev. 8-81)

or GSA GEN. REG. NO. 421-529/326

Prescribed by GSA

FPMR (41 CFR) 101-11.6

C/37



UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
WASHINGTON, D. C. 20555

Docket No. 50-344

MEMORANDUM FOR: Gus C. Lainas, Assistant Director  
for Operating Reactors, DL

FROM: William V. Johnston, Assistant Director  
Materials, Chemical & Environmental Technology, DE

SUBJECT: SPIRIT LAKE/TROJAN PLANT FLOODING

In a memorandum dated August 8, 1984, you requested that we issue a final SER addressing the effects of flooding in the Columbia River at the Trojan Plant due to a postulated breakout of Spirit Lake. Attached to your memorandum was a copy of a letter from the USGS to FEMA which showed acceptable flood levels at the Trojan Plant. However, the USGS in its letter to FEMA made it very clear that the flood level information is provisional and subject to further review and revision until their final report is published.

Until the USGS publishes its final study report, we do not feel that it is prudent to issue an SER based on information that is subject to change. The final USGS study report isn't expected for several weeks. Assuming that the conclusions of the study, pertaining to flood levels in the Columbia River, do not change from what is discussed in the letter to FEMA, then a breakout of Spirit Lake, if it should occur, would not affect the safe operation of the Trojan Plant. This is because a flow as high as 750,000 cfs in the Columbia River coincident with a mudflow from the Cowlitz River, would result in a flood level in the Columbia River of only 40 ft msl. This is 5 ft below the plant grade elevation of 45 ft msl. (The licensee's analysis showed a flood elevation of 39 ft msl for a Columbia River discharge of 800,000 cfs.) Since the USGS report will not be published for several weeks, we recommend that the licensee commit to the attached monitoring program.

If the USGS conclusions in their final report remain as discussed in the FEMA letter, then the monitoring program may be discontinued. If, however, there are substantive changes, we will address those changes as they relate to the operation of the Trojan Plant. We will provide an SER after receipt and analysis of the USGS study report.

William V. Johnston, Assistant Director  
Materials, Chemical & Environmental  
Technology  
Division of Engineering

Attachment:  
As stated

cc: w/o attachment  
R. Vollmer

w/attachment  
J. Miller  
C. Trammell  
R. Ballard  
R. Jachowski  
R. Gonzales

## ATTACHMENT

### Trojan Plant/Spirit Lake Monitoring Program

- 1) Monitor and record the stage in the Columbia River at the Vancouver gage once every 24 hours.
- 2) Whenever the Columbia River stage is at or above 15.0 ft, the following will be implemented:
  - (a) On a daily basis, confirm with the appropriate authorities that the early warning system installed to signal an uncontrolled release from Spirit Lake is operational.
  - (b) Procedures designed to implement emergency measures in the event of a Spirit Lake breakout will be reviewed to confirm that the necessary actions can be successfully implemented.
- 3) In the event of a failure of the Spirit Lake debris-blockage, the Trojan Plant will be shut down immediately regardless of the flow in the Columbia River.



# RECORD OF TELEPHONE CONVERSATION

DATE: 8 April 1985 PROJECT: Trojan - Spirit Lake Blockage  
 RECORDED BY: H. E. Lefevre CLIENT: -  
 TALKED WITH: David Kresch OF USGS, Tacoma, WA

ROUTE TO: INFORMATION ACTION

L. Reiter; S. Bracnum;  
R. McMullen; R. Ballard  
D. Cherry; R. Gonzales; C. Trammell ✓

MAIN SUBJECT OF CALL: Status of FEMA-sponsored report dealing with mudflow effects on the Columbia River resulting from failure of the Spirit Lake Blockage.

ITEMS DISCUSSED:

The FEMA-sponsored report entitled "Impact on the Columbia River of an Outburst of Spirit Lake" has been published and is currently being distributed by the USGS's Tacoma office. The NRC (Geoscience Branch) should receive the report (WRI Report 85-A054) within 2-3 weeks. FSB will then provide a copy to EHEB and C. Trammell, DOL.

NOTE: The Corps of Engineers' 8,500' outlet tunnel, which will draw down Spirit Lake to El. 3440' (12' below the present level) has been completed and will be operational on April 27. By the end of September the Corps hopes to have Spirit Lake drawn down to design level of El. 3440'.

Harold E. Lefevre

C/38



INWARDED

NOTE TO JIM MILLER:

Jim:

We've reviewed Charlie's meeting summary and suggest that some changes be made as shown on the enclosed copy of Charlie's letter. If you have any questions or problems with this, please ~~call~~ call Ballard at 27972, Fliegel at 28028 or me at 28117.

OK 4

Ray Gonzales

C/39