



INTEROFFICE CORRESPONDENCE

DATE: December 15, 1993
TO: S. R. Keith, Solar Pond Program, Bldg. 080, X8541
FROM:  D. R. Swanson, Safety Analysis Engineering, Bldg. T886B, X7009
SUBJECT: 750 PAD ACCELERATED SOLAR POND SLUDGE REMOVAL SAFETY ANALYSIS
DRS-097-93

PURPOSE

This letter is to transmit the results of the Safety Analysis for the A/B Pond portion of the Accelerated Solar Pond Sludge Removal Project (ASPSRP), a copy of the calculations that support the safety analysis, and a revision to the Basis for Interim Operations (BIO) for the 750/904 pads.

DISCUSSION

The Department of Energy (DOE) Order 5480.23, "Nuclear Safety Analysis Reports," requires, in part, that nuclear facilities perform or upgrade their Safety Analysis Reports (SARs) to comply with the DOE Order. The DOE Order requires that a BIO be prepared for the interim period until the SAR is approved.

There currently exists a draft SAR for the 750/904 Pad that assumes that the waste form to be stored on the 750 Pad will be pondcrete, produced from the solar pond sludge, or saltcrete produced from the Building 374 evaporator concentrate. On the other hand, the ASPSRP will remove and store solar pond sludge in 10,000 gallon tanks on the 750 Pad.

Since the draft SAR did not consider the storage of sludge, the attached Safety Analysis (Attachment 1) evaluates the hazards associated with these operations for the A/B Ponds and concludes that these operations will be within the safety envelope of the draft SAR. A draft revised BIO that reflects the ASPSRP has been prepared and is included as Attachment 2. The calculations that support the Safety Analysis are documented in calculation number 93-SAE-004. A copy of the approved calculation is attached (Attachment 3).

The Safety Analysis for the C Pond portion of the ASPSRP is currently underway and every attempt is being made to complete this analysis before the Christmas holiday. The need to complete calculation checking and obtain other NSE reviews and approvals may cause this date to extend into early January 1994; however, this should have no impact on current project schedules.

The attached BIO will ultimately be submitted to DOE as part of the revised Safety Analysis Program Implementation Plan for DOE Order 5480.23. The BIO and supporting safety analysis will be superseded upon DOE approval of the draft SAR. The current estimated date for submittal of the SAR to DOE is April 29, 1994.

S. R. Keith
December 15, 1993
DRS-097-93
Page 2

RESPONSE

If you have any questions or comments, please contact A C. Stalker at X8484/DP7565.

ACS:1a

Attachments:
As Stated (3)

cc:

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