

LICENSING BRANCH ROUTE SLIP

DATE: 2/7

Price, H. L. _____
Kirk, R. L. _____
Price, E. R. _____
Marsh, D. _____
Beck, C. K. _____
Rogers, L. R. _____
Mason, J. R. _____
Teets, S. A. _____
DL&R Mail Room _____

Johnson, L. E. _____
Fleury, E. R. _____
Edwards, C. T. _____
Borlik, R. F. _____
Karas, F. W. _____
Mason, W. D. _____
Frederick, R. J. _____

Delaney, J. C. _____
Lene, J. L. _____
McCraless, T. G. _____
Doulos, N. _____
Gustavson, S. R. _____
Johnson, H. G. _____
Steele, E. _____
Diggs, R. _____
Allen, H. _____
Dorsey, E. _____

From: _____

A/4

WESTINGHOUSE ELECTRIC CORPORATION

WESTINGHOUSE TEST REACTOR

LICENSE NO. TR-2

WTR INCIDENT

CHRONOLOGY

- 4/3/60 Approximately 8:50 p.m. WTR incident occurred: High activity in primary coolant.
- 4/4/60 Westinghouse notifies Washington Division of Licensing and Regulation and New York Operations Office by telegram of incident.
- 4/4/60 AEC notified JCAE staff by phone of WTR incident.
- 4/7/60 Westinghouse files "Report of Incident - WTR" dated 4/4/60.
- 4/12/60 AEC ltr. transmits to ACRS cys. of "Report of Incident - WTR" dtd. 4/4/60.
- 4/20/60 Ltr. to JCAE supplementing telephone report of 4/4/60.
- 4/28/60 DLR ltr. to ACRS stating intent to keep ACRS informed regarding reports of incidents at WTR (and GETR).
- 5/5/60 Representatives of Division of Inspection discussed the WTR incident with ACRS.
- 6/29/60 DLR receives Westinghouse Report No. WTR-40 and 6-17-60 letter requesting AEC authorization for modifications of WTR High Pressure Water Loop.
- 6/30/60 DLR issues order stating operations of WTR may be resumed only upon AEC approval. Requires submission of analysis of incident and corrective measures to be taken.
- 7/7/60 DLR transmits to ACRS Westinghouse report WTR-40 re proposed WTR high pressure water loop modifications.
- 7/7/60 AEC transmits to JCAE copies of DLR 6/30/60 order to Westinghouse.
- 7/12/60 DLR letter informs Westinghouse it is not authorized to fuel or operate modified loop described in Westinghouse's 6-17-60 letter and Report WTR-40 without written AEC approval. Westinghouse requested to file statement of determination of WTR Safeguards Committee on this matter as required by License TR-2.

- 7/12/60 Westinghouse files Report No. WTR-49, "Report on WTR Fuel Element Failure, April 3, 1960", dated 7-7-60. Westinghouse requests AEC approval to load and operate reactor.
- 7/12/60 Westinghouse files Report No. WTR-51 re proposed changes in venting system of process water head tank. Westinghouse requests AEC approval.
- 7/13/60 Westinghouse files request for extension of time to 8/1/60 to file request for formal hearing on order.
- 7/14/60 DLR grants Westinghouse extension until 8/1/60 to file request for formal hearing on order.
- 7/14/60 Westinghouse letter dated 7/12/60 requests AEC approval to install nine control rods with fuel element followers and four instrumented experiments.
- 7/18/60 DLR transmits to ACRS Westinghouse Report No. WTR-49.
- 7/19/60 Westinghouse files ltr. 7/18/60 supplementing WTR-49, and copy of WTR Operating Procedures and Standards, P-107.
- 7/19/60 DLR receives 7/18/60 Westinghouse letter transmitting WTR Safeguards Committee determination regarding proposed loop modifications reported in WTR-40.
- 7/19/60 AEC letter to JCAE furnishing status report regarding WTR incident.
- 7/22/60 DLR transmits to ACRS Westinghouse Report No. WTR-51 "Modification to Venting System for WTR Process Water Head and Surge Tanks".
- 7/25/60 DLR transmits to ACRS Westinghouse ltr. dtd. 7/18/60 and Westinghouse statement regarding proposed modifications to WTR high pressure water loop.
- 7/25/60 DLR transmits to ACRS Westinghouse letter dtd. 7/18/60 and report "WTR Operating Procedures and Standards".
- 7/25/60 DLR transmits to Westinghouse Amendment to 6/30/60 order -- authorizing installation of nine control rods with fuel element followers and four fuel elements with instrumented experiments.
- 7/27/60 DLR transmits to ACRS Westinghouse 7/12 ltr. re WTR request for authorization for partial fuel loading.
- 7/27/60 DLR ltr. transmits to ACRS Westinghouse Report WTR-40 "Modifications to WTR High Pressure Water Loop."

- 7/27/60 AEC transmits to JCAE copies of 7/25/60 amendment to order to Westinghouse authorizing partial loading.
- 7/28/60 ✓ Westinghouse files Report WTR-53 supplementing WTR-51 re Head Tank Vent Valve and proposed new alarm setting.
- 7/29/60 ✓ Westinghouse files request for extension of time to 8/15/60 for filing request for formal hearing on order.
- 8/1/60 ✓ DLR grants extension until 8/15/60 to file request for formal hearing on order.
- 8/4/60 ✓ DLR transmits to ACRS Westinghouse Report WTR-53 regarding head tank vent valve. OK
- 8/15/60 ✓ Westinghouse files request for extension of time to 9/1/60 for filing request for formal hearing on order.
- 8/15/60 ✓ DLR grants extension to 9/1/60.
- 8/17/60 ✓ Westinghouse files ltr. dtd. 8/15/60 concerning revisions in WTR operating procedures.
- 8/23/60 ✓ DLR transmits to ACRS Westinghouse 8/15/60 ltr. re revisions in WTR operating procedures. OK
- 8/25/60 ✓ DLR ltr. notifies ACRS of possible need for ACRS report at September meeting on proposed modifications of one of WTR high pressure experimental loops if public hearing is involved in approval by AEC. OK
- 8/30/60 ✓ Westinghouse files request for extension of time to 9/15/60 for filing request for formal hearing on order.
- 9/1/60 ✓ DLR grants extension to 9/15/60.
- 9/7/60 ✓ DLR authorizes Westinghouse to start up and operate WTR in accordance with provisions of TR-2 and certain additional conditions. AEC staff analysis attached.
- 9/7/60 ✓ DLR letter authorizes Westinghouse to fuel and operate modified high pressure experimental loop. AEC staff analysis attached.
- 9/16/60 ✓ DLR ltr. notifies JCAE of issuance of the two 9/7/60 authorizations to Westinghouse concerning startup and operation of WTR. AEC staff analysis attached.
- 9/16/60 ✓ DLR provides ACRS with copies of the two 9/7/60 authorizations concerning startup and operation of WTR. AEC staff analysis attached. ✓

9/23/60

ACRS meeting, Washington, AEC staff and licensee, on fuel element failure. Presentation for information of ACRS.

WESTINGHOUSE ELECTRIC CORPORATION

WESTINGHOUSE TEST REACTOR

LICENSE NO. TR-2, AMENDMENT NO. 1

INCREASE FROM 20 MW TO 60 MW

CHRONOLOGY

- 5/29/59 Westinghouse files Amendment No. 14 (dated 5/26/59) requesting authorization to operate at 60 megawatts.
- 6/3/59 DLR transmits copies of Westinghouse Amendment No. 14 to ACRS.
- 8/21/59 DLR requested Westinghouse to furnish additional information regarding Amendment No. 14 -- to show demonstrated performance at power up to 20 MW.
- 9/8/59 Westinghouse files supplement (9/4/59) to Amendment No. 14 in response to AEC letter 8/21/59.
- 9/15/59 DLR transmits copies of 9/4/59 supplement to ACRS.
- 9/24/59 DLR transmits staff analysis of 60 MW operation to ACRS.
- 11/13/59 Westinghouse files supplement (11/11/59) to Amendment No. 14 - (Report on Thermal and Hydraulic Investigation of Testing Reactors) (Advance copies sent ACRS 11/10/59)
- 11/13/59 ACRS meeting, Washington, AEC staff and licensee, on proposed power increase.
- 11/14/59 ACRS report to AEC approving operation to 60 MW.
- 12/17/59 DLR transmits to Westinghouse Notice of Proposed Issuance of License Amendment to authorize operation at 60 MW. (Copy sent ACRS same date)
- 12/22/59 Notice of Proposed Issuance filed with Federal Register.
- 1/8/60 Telegram to AEC from MAELU - NF-4 has been issued for 4.5 million dollars (dated 1/7).
- 1/8/60 Telegram to AEC from NELIA - NF-82 has been issued for 4.5 million dollars (dated 1/7).
- 1/8/60 DLR issues Amendment No. 1 to License TR-2 authorizing operation to 60 megawatts.
- 1/12/60 DLR notifies JCAE of issuance of Amendment No. 1 to TR-2 authorizing operation to 60 MW.