LICENSEE EVENT REPORT

, CONTROL BLOCK: [] [] (PLEASE PRINT OR TYPE ALL REQUIRED INFORMATION)
0 1 M A P P S 1 2 0 0 - 0 0 0 0 0 - 0 0 3 4 1 1 1 1 4 5 5 TOTAL SE CODE 14 15 LICENSE NUMBER 25 26 LICENSE TYPE 30 57 CAT 58
CON'T O 1 SOURCE L O O O O O O O O O
0 2 On August 14, 1981, Boston Edison received an analysis report from the Yankee
0 3 Atomic Environmental Laboratory which indicated that a reportable concentration
o 4 of Cs-134 and Cs-137 existed in a sediment sample collected on May 27, 1981.
The above sediment sample concentrations do not present a hazard to the health
[0] and safety of the public due to the extremely limited distribution of the
0 7 activity and the absence of any ingestion pathway or direct radiation hazard.
REFER TO ATTACHMENT FOR FURTHER INFORMATION.
SYSTEM CAUSE CODE SUBCODE COMPONENT CODE SUBCODE SUB
COCCURRENCE REPORT REVISION NO.
ACTION FUTURE ON PLANT SHUTDOWN HOURS 22 ATTACHMENT SUBMITTED FORM SUB. PRIME COMP. SUPPLIER MANUFACTURER Z 18 Z 19 Z 20 Z 21 0 0 0 0 Y 23 N 24 Z 25 Z 9 9 9 9 10 10 10 10 1
1 0 These concentrations were most likely due to a hot particle contained in the
[1]1 controlled releases from PNPS-1 sometime during the past year.
112
13
7 8 9 FACILITY STATUS & POWER OTHER STATUS 30 METHOD OF DISCOVERY DESCRIPTION (32)
1 5 E 28 1 0 0 29 N.A. D 31 Notification by Environmental Lab 7 8 9 10 12 13 44 45 46 80
RELEASED OF RELEASE AMOUNT OF ACTIVITY (35) 1 6 Z (33) Z (34) N.A. PERSONNEL EXPOSURES AMOUNT OF ACTIVITY (35) N.A. 10 11 45
NUMBER TYPE DESCRIPTION (39) 1 7 0 0 0 37 Z 38 N.A. 7 8 9 PERSONNEL INJURIES 13
NUMBER DESCRIPTION (41) N.A. 80
LOSS OF OR DAMAGE TO FACILITY 43 TYPE DESCRIPTION N.A.
PUBLICITY (45) 8109010493 810824 NRC USE ONLY
2 0 N 44 N.A. 5 PDR 68 69 80 80
NAME OF PREPARER C.E. Bowman/G.G. Whitney PHONE: 617-746-7900

BOSTON EDISON COMPANY

PILGRIM NUCLEAR POWER STATION

DOCKET NO. 50-293 Attachment to LER #81-042/04T-0

On August 14, 1981, Boston Edison received an analysis report from the Yankee Atomic Environmental Laboratory (YAEL) which indicated that a reportable concentration of Cs-134(1491.±27.pCi/kg) and Cs-137(17733.±80 pCi/Ku.pCi/kg) existed in a sediment sample of 24-26cm taken from the Rocky Point Discharge Canal Outfall area on May 27, 1981.

The above concentrations are in excess of ten (10) times the Cs-134 LLD (29.0pCi/kg) and Cs-137 (36.0+7.3pCi/kg) concentrations for the control station sediment sample of 24-26cm taken from Duxbury Beach of May 28, 1981.

The Cs-134/Cs-137 ratio of the indicator sample is indicative of older controlled liquid releases from PNPS-1.

The indicator sample underwent confirmatory reanalyses, and neither Cs-134 nor Cs-137 were detected above the LLD. In addition, neither Cs-134 nor Cs-137 were detected above the LLD in the other indicator sediment samples (top layer 0-2cm, bottom layer 28-30cm). This would indicate the existance of a "hot" particle, most likely due to past controlled liquid releases from PNPS-1.

The above sediment sample concentrations do not present a hazard to the health and safety of the public due to the extremely limited distribution of the activity and the absence of any ingestion pathway or direct radiation hazard.