

REPORT DATE: September 20, 1979

REPORTABLE OCCURRENCE 79-33

OCCURRENCE DATE: August 28, 1979

ISSUE 0

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FORT ST. VRAIN NUCLEAR GENERATING STATION
PUBLIC SERVICE COMPANY OF COLORADO
P. O. BOX 361
PLATTEVILLE, COLORADO 80651

REPORT NO. 50-267/79-33/03-L-0

Final

IDENTIFICATION OF
OCCURRENCE:

On August 28, 1979, an unauthorized radioactive gas waste release was made contrary to the requirements of LCO 4.8.1. This occurrence is reportable per Fort St. Vrain Technical Specification AC 7.5.2(b)3.

EVENT
DESCRIPTION:

At 1630 hours on August 28, 1979, while at 40% reactor power and 117 MW electrical power, the "prior-to-release" gas waste surveillance for gas waste surge tank 1B was completed. A gas waste release was started at 1715 hours on August 28, 1979.

At 2245 hours the operator noted that there had been no change in 1B gas waste surge tank pressure but 1A gas waste surge tank pressure had decreased. The gas waste release was immediately terminated and the gas waste release valve lineup checked. It was found that the wrong tank had been lined up for release.

The LCO 4.8.1 requires that prior to release of gaseous radioactivity from the gas waste surge tanks the tank contents be sampled and analyzed to determine compliance with the limits on radioactive releases.

The 1B gas waste surge tank was sampled and analyzed but 1A tank had not been sampled prior to the release. After the release 1A gas waste surge tank was sampled and analyzed. The results of the analysis of the 1A gas waste surge tank showed that the release rate and contents were within the limits specified in LCO 4.8.1. The only action contrary to LCO 4.8.1 was failure to sample and analyze the tank contents prior to the release.

Release Concentrations

1.32×10^{-3} $\mu\text{Ci/scc}$ of ^3H
 2.98×10^{-2} Ci/scc of ^{133}Xe
 5.83×10^{-5} Ci/scc of $^{133}\text{Xe}_m$

Total Activity Released

8.05×10^{-2} Ci of ^3H
 1.82 Ci of ^{133}Xe
 3.56×10^{-3} Ci of $^{133}\text{Xe}_m$

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CAUSE
DESCRIPTION:

The cause of the unauthorized radioactive gas waste release was personnel error in performing the required valve lineup prior to an authorized release. As a result of this error the wrong gas waste surge tank was released.

CORRECTIVE
ACTION:

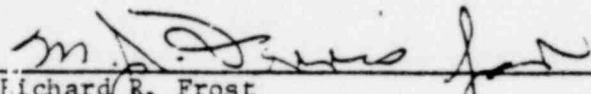
The personnel involved in the error have been admonished for their actions.

The valve lineup check sheets have been revised to include initials of the operator for each individual valve as it is positioned.

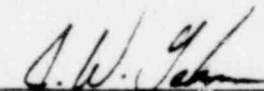
The "prior-to-release" surveillance has been revised to include the tank number that is to be released as well as the valve check sheet to be used.

No other corrective action is required or planned.

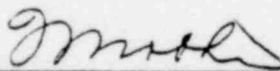
Prepared by:


Richard R. Frost
Technical Services Technician

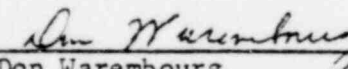
Reviewed by:


J. W. Gahm
Technical Services Supervisor

Reviewed by:


Frank M. Mathie
Operations Manager

Approved by:


Don Warembourg
Manager, Nuclear Production

LICENSEE EVENT REPORT

CONTROL BLOCK: (PLEASE PRINT OR TYPE ALL REQUIRED INFORMATION)

01 C O F S V 1 2 0 0 - 0 0 0 0 0 - 0 0 3 4 1 1 2 0 4 5
 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

CON'T
 01 REPORT SOURCE L 6 0 5 0 0 0 2 6 7 7 0 8 2 8 7 8 8 0 9 2 0 7 9 9
 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

EVENT DESCRIPTION AND PROBABLE CONSEQUENCES 10
 02 During normal operation while attempting to make an authorized release from the 1B gas
 03 waste surge tank, an unauthorized release was made from the 1A gas waste surge tank.
 04 Upon discovery of this occurrence the release was terminated and the valve lineup cor-
 05 rected. The 1A gas waste surge tank was sampled and analyzed and the release found to
 06 be below the limits of LCO 4.8.1. The release of radioactive gas waste without prior
 07 sample and analysis is contrary to LCO 4.8.1. RO 78-22 was similar. There was no
 08 affect on the health or safety of the public.
 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

09 SYSTEM CODE Z Z 11 CAUSE CODE A 12 CAUSE SUBCODE B 13 COMPONENT CODE V A L V E X 14 COMP. SUBCODE F 15 VALVE SUBCODE D 16
 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

17 LER/RO REPORT NUMBER 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

ACTION TAKEN G 18 FUTURE ACTION Z 19 EFFECT ON PLANT Z 20 SHUTDOWN METHOD Z 21 HOURS 0 0 0 0 22 ATTACHMENT SUBMITTED Y 23 NPRD-4 FORM SUB. N 24 PRIME COMP. SUPPLIER Z 25 COMPONENT MANUFACTURER Z 9 9 9 9 26
 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

CAUSE DESCRIPTION AND CORRECTIVE ACTIONS 27
 10 The wrong valve lineup was made. The valves were positioned for release from the 1A
 11 gas waste surge tank when release from 1B was authorized. The valve checkoff sheets
 12 were revised to require operator initials for each individual valve. Personnel in-
 13 volved were admonished.
 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

14 FACILITY STATUS E 28 % POWER 0 4 0 29 OTHER STATUS N/A 30 METHOD OF DISCOVERY A 31 DISCOVERY DESCRIPTION Operator Observation 32
 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

16 ACTIVITY CONTENT G 33 M 34 AMOUNT OF ACTIVITY 1.82 Ci 35 LOCATION OF RELEASE Reactor Building Exhaust to Atmosphere 36
 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

17 PERSONNEL EXPOSURES NUMBER 0 0 0 37 TYPE Z 38 DESCRIPTION N/A 39
 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

18 PERSONNEL INJURIES NUMBER 0 0 0 40 DESCRIPTION N/A 41
 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

19 LOSS OF OR DAMAGE TO FACILITY TYPE Z 42 DESCRIPTION N/A 43
 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

20 PUBLICITY ISSUED N 44 DESCRIPTION N/A 45
 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

NAME OF PREPARER J. W. Gahm PHONE: (303) 785-2253

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NRC USE ONLY