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| AUTH.NAME SHRIVER,T.D. | AUTHOR AFFILIATION Arizona Nuclear Power Project (formerly Arizona Pub | olic Serv |
| HAYNES, J.G. RECIP.NAME | Arizona Nuclear Power Project (formerly Arizona Pub RECIPIENT AFFILIATION | lic Serv |
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SUBJECT: LER 89-002-00:on 890203, radioactive effluent gaseous monitor valve improperly installed. W/8 ltr.

DISTRIBUTION CODE: IE22D COPIES RECEIVED:LTR (ENCL / SIZE: 6 TITLE: 50.73 Licensee Event Report (LER), Incident Rpt, etc.

NOTES:Standardized plant.

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| | appr bypa Moni impr the dete dete The prop rema insp | roximatel ass valve tor (RU- roperly in monitor' ector. The monitor monitor perly ins aining Un pected to | 3, 1989, F y 100 perc in the Pl 143) was i nstalled v s particul his result the amount was out of talled pri it 1, 2, a ensure th roblems was | cent pow ant Ver installe valve re late fil ced in r c of Pla f servic ior to n and 3 Ra nat the | ver w nt Sy ed ba esult lter, non-c ant V ce at retur adioa flow | hen i stem ckwar ed in iodi onser ent S the ning ctive bypa | t was Low F ds (i a po ne ca vativ ysten time the n Gase | disc ange .e., ortion rtric e val part of d conito cous l | co R n dg lu ti s r f | vered th adioacti everse f of the s e, and g es being culate a covery. to an O fluent M | at the ve Gase low dir ample f aseous utiliz nd iodi The va PERABLE onitors | det ous ect low act ed ne. lve st we | ector Efflucion). bypas: ivity when was atus. re | The |
| | Wher issu This | n the inv aed with S LER inc ION 42b a | the valve estigation our findin ludes the nd 6.9.2 f | n is con ngs and informa for a Sp | nplet conc ation pecia | ed, a lusio requ | supp ns. ired | lemeı | nt | to this | report | wi | 11 be | |
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| NRC Form 366A | | | | | |
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| (9 83) | | LICENSEE EVENT REP | ORT (LER) TEXT CONT | INUATION | U.S. NUCLEAR REGULATORY COMMISSION APPROVED OMB NO 3150-0104 |
| | | · · · · · · · · · · · · · · · · · · · | | , , | EXPIRES: 8/31/88 |
| FACILITY NAME (1 |) | | DOCKET NUMBER (2) | LER NUMBER | |
| | | | | YEAR SEQUENT | |
| Palo V | erde | Unit 3 | 0 5 0 0 0 5 3 | 00819-0101 | 2 _ 0 0 0 2 of 0 5 |
| TEXT III more space i | s required, | use addroonal NRC Form 305A's) (17) | a | · · · · · · · · · · · · · · · · · · · | |
| NOTE: | Tec 6.9 Mon ino to 198 | s LER is also being su hnical Specification 3 .2 to report an event itor (Plant Vent High perable for greater th operability was exceed 9. | .3.3.8 ACTION 42b a in which a Radioact Range Gaseous Activ an 72 hours. The 7 ed at approximately | nd Technical S ive Gaseous Ef ity Monitor RU 2 hour limit fo | pecification fluent -144) was or returning |
| I. | DESC | RIPTION OF WHAT OCCURR | ED: | | |
| | Α. | Initial Conditions: | | | |
| | | At the time of event 3 was in Mode 1 (POWE power. | | | |
| | Β. | Reportable Event Desc Times of Major Occurr | | Dates and Appr | oximate |
| | | Event Classification: | Condition prohibi Technical Specifi | | nt's * |
| | | On February 3, 1989, non-licensed) discove in the Plant Vent Sys Effluent Monitor (RU- reverse flow direction the monitor's particul gaseous activity dete flow is indeterminate Specification 4.11.2. | red that the detect tem (VL) Low Range 143)(IL)(RI) was in n). This resulted late filter (FLT), ctor (DET). The qu which results in n | or bypass valve Radioactive Ga stalled backwa in sample flow iodine cartride antity of bypa oncompliance w | e (FV-05)(20) seous rds (i.e., bypassing ge (FLT), and ssed sample |
| | | Prior to the event, o (utility, non-license excessive air in-leak alarm when RU-143's i integrity during rout initiated and an appr to troubleshoot and c | d) noted that RU-14 age as it was diffi nlet valve was shut ine surveillance te oved work authoriza | 3 appeared to 1 cult to obtain to check for sting. A work tion document | have a low flow system request was was initiated |
| | | At approximately 1515 System Radioactive Ga were declared inopera sample stream leakage as a pair with RU-143 the high range monito operating and RU-144 predetermined setpoin standby. RU-144 must from service. RU-144 | seous Effluent Moni ble to investigate on RU-143. Monito being the low rang r. Normal configur in standby. When R t, RU-144 starts an be declared inoper | tors (RU-143 and the cause of the rs RU-143 and e monitor and ation consists U-143 reaches d RU-143 goes able when RU-143 | nd RU-144) he apparent RU-144 work RU-144 being of RU-143 a a into 43 is removed |

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| ACILITY NAME (1) | | DOCKET NUMBER (2) | · · · · · · · · · · · · · · · · · · · | EXPIRES: 8/31/ | | |
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| | | 0 5 0 0 0 5 30 | 819010 | 2 _ 0 0 | 0 3 OF | 0 |
| Palo Verde | Unit 3 releases. Pursuant to and 42a the Preplanned A monitor Plant Vent Syste During troubleshooting particulate and iodine also noted that the dete backwards. The valve wa replaced and the air in appropriate retesting, A at approximately 1540 MS inoperable approximately During a subsequent eng detector bypass valve be the valve would not have indeterminate amount of filter section which res radioactive particulate Surveillance Requirement I-131, I-133, Tritium and with half-lives greater determined to be within representative samples a the sampling and analys Table 4.11-2, Notation rate to the sampled strop period covered by each of accordance with Specific amount of sample bypass sampled stream flow rate was performed and the expossible. The results of the release calculations Status of structures, sy the start of the event of As discussed in Section Gaseous Effluent Monitor discovery. | Alternate Sampling em effluent. it was identified t filter shield assem ector bypass valve as re-installed pro- leakage problem wa RU-143 and RU-144 w ST on February 4, 1 y 72 hours and 25 m ineering review of eing installed back been seating prop- bypass flow around sulted in non-conse and iodine effluen t 4.11.2.1.2 states nd all radionuclide than 8 days in gas [prescribed] limit and performing anal is program specifie "f" states, "The ra eam flow rate shall dose or dose rate c cations 3.11.2.1 flow, the ratio of e is not precisely xisting flow ratio of the testing and s will be reported ystems, or componen- that contributed to I.B, the Plant Ven | 8 9 - 010 tion 3.3.3.8 Program was hat seal gas bly were lea (FV-05) was perly. The s resolved. ere returned 989. RU-144 inutes. the effects wards, it wa erly. This RU-143's de rvative calc t from the P , "The dose s in particu eous effluen sby obtai yses in acco d in Table 4 tio of the s be known fo alculation m " With an i sample flow known. In s determined t the effects in a supplem ts that were the event: t System Rad | 2OO ACTIONS 3 initiated kets for 1 king. It installed gaskets we After to service was of the s determinant tector and ulations of lant Vent rate to late form ts shall for rate to late form the time ade in ndeterminant rate to itu testino o the dego of correct inoperablicative | to the was ere ce ned ni jof oe th ve ate the ng ree ting ort. | |

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| | Ε. | Failure mode, mecha known: | nism, and effect of e | each failed co | omponent, if | |
| | | Not applicable - no | o component failures w | vere involved. | | |
| | F. | For failures of com or secondary functi | ponents with multiple ons that were also af | e functions, T ffected: | list of systems | S |
| | | Not applicable - no | o component failures w | vere involved | • * | |
| | G. | For failures that r estimated time elap train was returned | rendered a train of a psed from the discover to service: | safety system ry of the fai | n inoperable, lure until the | |
| | | Not applicable - no | o failures were involv | ved. | | |
| | H. | Method of discovery procedural error: | / of each component or | r system fail | ure or | |
| | | Not applicable - th procedural errors. | nere were no component | t or system f | ailures or | - |
| | I. | Cause of Event: | | | | |
| | | installed is underw conducted to date, installed cannot be review documentation determine when the to this report will | o determine when the b way. Based upon the b the cause of the bypa e determined. PVNGS p on of previous work on valve was incorrectly l be issued to descril conclusions made regan | results of the ass valve bein personnel are n RU-143 in a y installed. be the result | e investigation ng improperly continuing to n attempt to A supplement s of the | n |
| | J. | Safety System Respo | onse: | r. R | | |
| | | Not applicable - no necessary. | o safety system respon | nses occurred | and none were | |
| | К. | Failed Component In | nformation: | | - | |
| | | Not applicable - no | o component failures w | were involved | • | |
| и. | ASS | ESSMENT OF THE SAFET | Y CONSEQUENCES AND IM | PLICATIONS OF | THIS EVENT: | |
| | prov eff | vided to monitor the luents during actual | adioactive gaseous ef releases of radioact or potential release r these instruments a | of gaseous e | ffluents. The | 2 |
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| IC Form 368A 83) | | LICENSEE EVENT REPOR | T (LER) TEXT CONTINU | | S. NUCLEAR RE | - | |
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| | | | | | EXPIRES: 8/3 | DMB NO 3150- 1/88 | -0104 |
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| | Calc to e radi effl and radi time too oper abov affe even effl As d inde acro to a PVNG off- indi exce acci high safe | ccordance with the method ulation Manual (ODCM) to xceeding the limits of 10 oactive gaseous effluent uent monitor (RU-143) for the high range effluent m oactive gaseous effluents s until the concentration high during post-accident ates when the concentration the setpoint of the low ct the operation of the m t RU-143 and RU-144 are uent can be performed by iscussed in Section I.B, terminate and varies as a ss the detector/filter as pproximate the amount of S Chemistry Department per site doses to the public cates that off-site dose eded, a supplement to the dent conditions occurred range gaseous effluent m ty consequences or implice | ensure that an alar O CFR Part 20. They monitoring channels normal plant radio monitor (RU-144) for s. The low range monitor t conditions. The low in of radioactivity t conditions. The low in of radioactive of w range monitor. The monitor's gaseous and inoperable, monitor periodic sampling the amount of deter a function of the dis- sembly. ANPP has bypass flow. Based ersonnel are conduc . If information is Technical Specific is report will be is which would have re- monitor (RU-144). | rm/trip will re are two se s: the low r pactive gaseo r post-accide onitor operat in the efflue high range mo gas in the efflue the bypass flo ctivity chann ing of Plant and analyzing ctor bypass flo ctivity chann ing of Plant and analyzing ctor bypass flo ctivity chann ing a re-ass s developed w ation limits ssued. Addit equired actua Therefore, th | occur pr parate ange ous efflu ent plant es at al ent becom fluent i w does n el. In Vent low is ressure evaluatio essment have bee tionally, tion of pere were | on of no no no no no no no | |
| III. | CORR | ECTIVE ACTIONS: | | | | - | |
| | Α. | Immediate: | | | | | |
| | | The detector bypass val | ve was properly ins | talled. | | | |
| | Β. | Action to Prevent Recur | rence: | | | | |
| | | The detector bypass values radioactive gaseous effector bypass valves we Pending further evaluat event, no further corrective planned. When the invest corrective actions will report. | luent monitors were were discovered to ion and determinati ctive measures to p stigation is comple | checked. No be improperly on of the cau revent recurr te, a final a | o other / install /se of th rence are /ssessmer | nis e: nt of | |
| IV. | PREV | IOUS SIMILAR EVENTS: | | | | | |
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No previous similar events have been reported pursuant to 10CFR50.73.

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Arizona Nuclear Power Project P.O. BOX 52034 • PHOENIX, ARIZONA 85072-2034 192-00454-JGH/TDS/DAJ March 2, 1989

U. S. Nuclear Regulatory Commission NRC Document Control Desk Washington, D.C. 20555

Dear Sirs:

Subject: Palo Verde Nuclear Generating Station (PVNGS) Unit 3 Docket No. STN 50-530 (License No. NPF-74) Licensee Event Report 89-002-00 File: 89-020-404

Attached please find Licensee Event Report (LER) No. 89-002-00 prepared and submitted pursuant to 10CFR 50.73. In accordance with 10CFR 50.73(d), we are herewith forwarding a copy of the LER to the Regional Administrator of the Region V office.

This report is also being submitted pursuant to Technical Specifications 3.3.3.8 and 6.9.2 for a Special Report to discuss the inoperability of the Plant Vent High Range Radioactive Effluent Monitor.

If you have any questions, please contact T. D. Shriver, Compliance Manager at (602) 393-2521.

Very truly yours,

1 Haynes

J. G. Haynes Vice President Nuclear Production

JGH/TDS/JEM/kj

Attachment

cc: D. B. Karner (all w/a) E. E. Van Brunt, Jr. J. B. Martin T. J. Polich M. J. Davis A. C. Gehr INPO Records Center

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