## DISTRIBUTION



DEMONSTRATION SYSTEM

## REGULATORY INFORMATION DISTRIBUTION SYSTEM (RIDS)

| ACCESSION NBR:880 | 1140122 DOC.DATE: 88/01/07 NOTARIZED: NO DOCKET #           |   |
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| FACIL:STN-50-528  | Palo Verde Nuclear Station, Unit 1, Arizona Publi 05000528  |   |
| AUTH.NAME         | AUTHOR AFFILIATION  |   |
| MALIK,J.E.        | Arizona Nuclear Power Project (formerly Arizona Public Serv |   |
| HAYNES, J.G.      | Arizona Nuclear Power Project (formerly Arizona Public Serv | - |
| RECIP.NAME        | RECIPIENT AFFILIATION                                       |   |

SUBJECT: LER 87-016-01:on 870609, both trains of ESF pump room air exhaust cleanup sys inoperable due to personnel error. W/8 ltr.

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

NOTES:Standardized plant.

ACCELERATED

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Arizona Nuclear Power Project P.O. BOX 52034 • PHOENIX, ARIZONA 85072-2034

> 192-00325-JGH/JEM January 7, 1988

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

Dear Sirs:

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Subject: Palo Verde Nuclear Generating Station (PVNGS) Unit 1 Docket No. STN 50-528 Licensee Event Report 1-87-016-00 File: 87-020-404

Attached please find Supplement No. 1 to Licensee Event Report (LER No. 87-016-00 prepared and submitted pursuant to the requirements of 10CFR 50.73(d). We are herewith forwarding a copy of this report to the Regional Administrator of the Region V Office.

If you have any questions, please contact J. E. Malik, (Acting) Compliance Lead at (602) 393-3531.

Very truly yours,

MA - Har

J. G. Háynes Vice President Nuclear Production

JGH/JEM/kj

Attachment

cc: O. M. DeMichele (all w/a) E. E. Van Brunt, Jr. J. B. Martin J. R. Ball R. C. Sorensen E. A. Licitra A. C. Gehr INPO Records Center



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|                    | Palo  |                     | -                    | -                    | -                 |           |                     |                    |                   |                   |                        |                       |           |                        |                   |                  | -                  |                    |              |              | 0                      |                 |                     |                   |             | 1                 | OF    | 014      |
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| MONTH              | DAY   | YEAF                | <b>ξ</b> ΥΕ          | AR                   | ∭ <sup>s</sup>    | EQU<br>NU | ENTIAL<br>MBER      |                    | NUMB              | N <sub>R</sub>    | MONTH                  | DAY                   |           | YEAR                   |                   |                  |                    | ILITY              | NAME         | \$           |                        | ſ               | OOCKE               | ET N              | UMBER       | (S)               |       |          |
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|                    | DE (0)  |                     |                      |                      | 02(b)<br>05(a)(   | • • • • • |                     |                    | `  -              | -                 | 20.4050                |                       |           |                        |                   |                  |                    | (a)(2)(            |              |              |                        | ┝               | <b></b>             | 73,71             |             |                   |       |          |
| POWEI<br>LEVE      |   | 010                 | $\square$            |                      | 05(a)(            |           |                     |                    | ┝                 | -                 | 50.36(c                |                       |           |                        |                   |                  |                    | (a)(2)(<br>(a)(2)( | -            |              |                        | ┢               |                     | 73.71<br>07H      |             | ncity in          | Abstr | act      |
|                    |   |                     |                      | 20,4                 | 05(e)(            | 1)(iii)   | I                   |                    |                   | X                 | 50.73(s                | )(2)(i)               |           |                        |                   |                  | 60,73              | (a)(2)(            | vili)(A)     |              |                        | F               |                     | be/on<br>366A     | r and in    | Tøxt,             | NRCI  | Form     |
|                    |   |                     |                      |                      | 05(a)(            | ••••      |                     |                    | F                 |                   | 50,73(*                |                       |           |                        |                   |                  |                    | (a){2)(            |              |              |                        |                 |                     |                   |             |                   |       |          |
| *******            |   | ******              | 8                    | 20,4                 | 05(s)(            | 1)(v)     |                     |                    | L.                |                   | 60.734                 |                       | CT F      | OR THIS                | LER               | 121              | 60.73              | (*)(2)(            | 4)<br>       |              |                        |                 |                     |                   |             |                   |       |          |
| NAME               |   |                     |                      |                      |                   |           |                     |                    |                   |                   |                        |                       |           |                        |                   |                  |                    |                    |              | L            |                        |                 | ELEPH               | IONE              | NUM         | BER               |       |          |
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|                    | J. E.   | , ria               | TIK                  |                      |                   |           |                     |                    |                   |                   |                        |                       | NT F      | AILURE                 | DESC              | RIRE             |                    | 115 RI             | PORT         |              | 0                      | 4               | 313                 | <u>21</u> :       | <u>- I </u> | 131               | 514   | 2 7      |
| CAUSE              | SYSTEM  | сом                 | PONEN                | τ                    | ма                | URE       | AC-                 | REPO               | RTABL             | .e 🕄              |                        |                       |           | CAUSE                  | T                 |                  |                    | PONE               | T            | MAN          | IUFAC                  | •               | REPC<br>TO          | NPR               | BLE         |                   |       |          |
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|                    | (If yes, c  |                     | EVALO                |                      |                   |           |                     |                    |                   |                   | L                      | ,                     |           |                        | -                 |                  |                    |                    |              |              | EXPEC<br>UBMIS<br>DATE | SSION           |                     | Γ                 |             |                   |       |          |
| ABSTRAC            |   | -                   | _                    |                      |                   |           |                     |                    | pace ty           | pew               | ritten lin             | ( NO                  |           |                        |                   |                  |                    |                    |              |              |                        |                 |                     |                   |             |                   |       |          |
|                    | On June 11, 1987 it was discovered that between 1700 and 2330 MST on June 9, 1987, with Palo Verde Unit 1 in Mode 1 (POWER OPERATION) operating at 100 percent power, both trains of the Engineered Safety Feature (ESF) Pump Room Air Exhaust Cleanup System (PRAECS) were rendered inoperable at the same time. While reviewing the work completed during a recent Fuel Building Essential Ventilation Train "B" online outage, the on-shift Shift Supervisor discovered that the combination of two separate maintenance activities may have rendered both trains of the ESF PRAECS inoperable. Based on further evaluation, if the operable Train "A" of the ESF PRAECS had been started following a Safety Injection Actuation Signal, the ability to exhaust the Technical Specification required flowrate from the Auxiliary Building below the 100' elevation would have been impaired. |                     |                      |                      |                   |           |                     |                    |                   |                   |                        |                       |           |                        |                   |                  |                    |                    |              |              |                        |                 |                     |                   |             |                   |       |          |
| i                  | The r<br>Contr<br>activ   | lo                  | Shif                 | ft S                 | Sup               | er        | visc                | or h               | ho                | di                | id no                  | ot r                  | eco       | ogni                   | ze                | tha              | at c               | onc                | urre         | ent          |                        |                 |                     |                   | e           |                   |       |          |
| ,                  | As co<br>issue<br>warni<br>cross<br>provi   | ed t<br>ing<br>s ti | o th<br>tags<br>es b | ne a<br>s ha<br>petr | app<br>ave<br>wee | be<br>be  | pria<br>een<br>vent | ate<br>pla<br>tila | Ope<br>ced<br>tic | era<br>1 o<br>1 o | n tion<br>n th<br>syst | ns, l<br>ne a<br>tems | Ma<br>ppi | inter<br>ropr<br>and a | nan<br>iat<br>a p | ce<br>e e<br>roc | and<br>qui<br>cedu | Wo<br>pme<br>re    | rk (<br>nt 1 | Cont<br>to h | tro<br>nelp            | l p<br>p<br>eve | ers<br>erev<br>elop | sor<br>/en<br>pec | nne]<br>it  | )                 | •     | ;        |
| 8801<br>PDR        | 1401<br>ADC   | 22<br>0CK           | 88(<br>05(           | 000                  | )7<br>)52<br>)CD  | 8         |                     |                    |                   |                   |                        |                       | <u>.</u>  |                        |                   |                  |                    |                    |              | *            |                        |                 | ~ل                  |                   |             | ./                | /     |          |

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| -  | CENSEE EVENT RE   | PORT (LER) TEXT CONT  | NUATION  | APPROVED OMB NO 3150-<br>EXPIRES: 8/31/88   | 0104 |
|--|---|---|--|---|------|
| ILITY NAME (1)   |   | DOCKET NUMBER (2)   | LER NL   | IMBER (6) PAGE  | (3)  |
|  | •   |   | YEAR SEO   | UNBER NUMBER  | Τ    |
| Palo Verde Unit  | 1   | 0 5 0 0 0 5 2   | 8 8 7 0  | 1 6 0 1 0 2 or  | 0    |
| I III more space is required, use addition   | I NRC Form 305A's/ (17)   |   |  |   | 10   |
| 1987, with Palo<br>percent power, t<br>Air Exhaust Clea<br>trains of ESF PR  | Verde Unit 1 in<br>oth trains of t<br>nup System (PRA<br>AECS inoperable<br>7.8 was exceede   | rered that between 17<br>Mode 1 (POWER OPERA<br>he Engineered Safety<br>ECS)(VF) were rendere<br>, the ACTION Statemen<br>d and Limiting Condit   | FION) operat<br>Feature (ES<br>ed inoperable<br>nt for Techn   | ing at 100<br>F) Pump Room<br>e. With both<br>ical  |      |
| During ESF PRAEC<br>Actuation Signal<br>Auxiliary Buildi<br>closure of essen<br>lower levels of<br>Fuel Building (N<br>the atmosphere.<br>requires that an   | S operation fol<br>(SIAS)(JE), th<br>ng (NF) are iso<br>tial isolation<br>the Auxiliary B<br>D) Air Filtration<br>Technical Spec<br>ESF PRAECS floo   | lowing the receipt of<br>e levels below the lo<br>lated from the upper<br>dampers (BDMP). Air<br>uilding via a common<br>on Units (AFU)(HFA-JO<br>ification Surveilland<br>wrate of 6000 cubic f<br>he Auxiliary Building   | 00' elevation<br>levels by t<br>is then exh<br>connecting<br>1 and HFB-J(<br>ce Requirement<br>eet per min   | n of the<br>he automatic<br>austed from the<br>tunnel to the<br>D1) and then to<br>nt 4.7.8.5.3   |      |
| Ventilation Syst<br>Supervisor (util<br>Train "B" essent<br>isolation damper<br>PRAECS inoperabl<br>and damper HFB-M<br>opened to rework<br>the ESF PRAECS has<br>Technical Specif<br>the 100' elevation<br>under an approve<br>that approximate                       | em (FBEVCS)(VG)<br>ity-licensed) id<br>ial AFU (HFB-JO<br>(HFB-MO6)(BDMP)<br>e. AFU HFB-JOl<br>D6 (which is loo<br>the damper's ad<br>to be started<br>ad to be started<br>ication required<br>on would have be<br>d work order in<br>ly 3000 cfm could       | ted during a recent F<br>Train "B" online out<br>dentified that the co<br>l) door(s) open and t<br>) open may have rende<br>door(s) were open fo<br>cated inside of HFB-J<br>ctuator (HCU). If th<br>d following a SIAS, t<br>d flowrate from the A<br>een impaired. Subseq<br>Palo Verde Unit 3 on<br>d be exhausted from<br>ration vice the requi                       | age, the on<br>mbination of<br>he Train "B'<br>red both tra<br>or door seal<br>01) was inte<br>e operable 1<br>he ability t<br>uxiliary Bu<br>uent testing<br>June 16, 19<br>the Auxiliar            | shift Shift<br>f having the<br>" essential<br>ains of ESF<br>replacement<br>entionally<br>Train "A" of<br>co exhaust the<br>ilding below<br>g conducted<br>987 confirmed<br>co Building |      |
| damper HFB-MO6, a<br>replacement list<br>rework the damper<br>HFB-J01 door sea<br>clearance was hun<br>approximately 054<br>10, 1987. The wo<br>June 9, 1987 and<br>trains of ESF PRA<br>root cause of the<br>the Work Control<br>that concurrent m<br>inoperable. The | at that time the<br>ed. On June 9,<br>r actuator. Dun<br>l replacement ar<br>ng and the dampe<br>to on June 9, 19<br>ork order for th<br>the seals repla<br>AECS could have<br>e event was dete<br>Shift Superviso<br>naintenance actions<br>re were no speci | Schedule identified<br>ere was no work order<br>1987, the damper wor<br>ring this time parts<br>ad it was added to th<br>er was de-energized (<br>087 and remained this<br>be seal replacement w<br>ced by 2330 on June<br>been inoperable for<br>ermined to be a cogni<br>or (utility-licensed)<br>vities such as these<br>ific procedural guide<br>Online Outage Schedu | for HFB-J01<br>k order was<br>became avail<br>e outage sch<br>fails open)<br>way until 2<br>as initiated<br>9, 1987. Th<br>up to 6 1/2<br>tive personn<br>who did not<br>would rende<br>lines govern | door seal<br>amended to<br>lable for the<br>edule. The<br>at<br>212 on June<br>at 1700 on<br>erefore, both<br>hours. The<br>el error by<br>recognize<br>r the system                    |      |

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|                             | LICENSEE EVENT REPORT  |   |   |   |                         |
|-----------------------------|--|---|---|---|-------------------------|
|                             |  |   | ATION   | APPROVED (<br>EXPIRES: 8/3)                     | MB NO 3150-0104<br>1/88 |
| FACILITY NAME               | (i)<br>  | DOCKET NUMBER (2)   | LEA NUMB  |   | PAGE (3)                |
|                             |  |   | YEAR SEQUEN   | TIAL MAEVISION                                  |                         |
|                             |  | 0  5   0   0   0   5   2   8  | 8 7 - 0 1   | 6 <u> </u>                                      | 030F0                   |
|                             | e is required, use additional NRC Form 385A's) (17)  |   |   |   | ·······                 |
| des<br>iso                  | the time the event was discover<br>cribed, no longer existed since<br>lation damper had been shut. As<br>following actions will/have bee   | the AFU door(s) ha<br>s corrective action   | d been clos<br>to prevent                                 | ed and the                                      |                         |
| 1)                          | An Operations Department Expen<br>been developed and issued to a<br>with their crews. In addition<br>been distributed to Work Contr<br>personnel for their informatic  | all Shift Superviso<br>1, a copy of one of<br>1 and Maintenance                         | rs to discu<br>the Niaht                                  | ss this ev<br>Orders has                        | vent                    |
| 2)                          | Warning tags have been placed<br>AFUs, the Fuel Building Suctio<br>cross tie the Fuel Building an<br>the Auxiliary Building above a  | on Dampers, and the<br>nd Auxiliary Buildi  | large plug<br>ng as well                                  | s which co                                      | ոլգ                     |
| 3)                          | Operation's Procedure "FUEL BU<br>include specific guidelines fo<br>doors/inspection panels to be  | r allowing certain  | nas been re<br>Fuel Build                                 | vised to<br>ing                                 |                         |
| 4)                          | Engineering is conducting a de<br>of penetration openings within<br>operability. The study will a<br>Technical Specification flow r<br>indicated that system operabil<br>pressures in the area than upo<br>the Auxiliary Building. | the system in orde<br>lso include a revie<br>equirements since t<br>ity is more depende | er to ensur<br>w of the ba<br>he Unit 3 t<br>ent upon the | e ESF PRAE<br>asis for<br>testing<br>e relative | CS                      |
| 5)                          | The Plant Manager has issued a<br>discussing the precautions bei<br>operability until the Engineer<br>requesting that all personnel  | ng implemented to e<br>ing design study is  | nsure ESF F<br>completed                                  | RAECS<br>and                                    | ors                     |
| 6)                          | The Day Shift Supervisor (util<br>the responsible Work Control S   | ity-licensed) has o<br>upervisor.   | iscussed th   | ne event w                                      | ith                     |
| 7)                          | An administrative control proc<br>for the preparation of Online (<br>concern regarding maintenance<br>safety related equipment potent<br>equipment inoperable.   | Outages. This proc<br>activities being co   | edure will<br>nducted on                                  | address th<br>one train                         | ne                      |
| by 1<br>the<br>(LOC<br>belo | ESF PRAECS is required to contro<br>eakage from below the 100' elev<br>ESF pumps in the ESF equipment of<br>A). Control of airborne radioad<br>w the 100' elevation of the Aux<br>imiting releases to above the 10                 | vation in the Auxil<br>rooms) following a<br>ctivity includes fi<br>iliary Building to  | iary Buildi<br>Loss of Coc<br>ltering rel                 | ng (incluc<br>lant Accid<br>eases from          | ling<br>lent<br>n       |

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| NRC Form 368A<br>(9-83)   | LICENSEE EVER  | NT REPORT (LER)  | TEXT CONTINU  | JATION  |   | M8 NO 3150-0                             |  |
|---|--|--|---|---|---|--|--|
| FACILITY NAME (1)   |  | DOCKET N   | UMBER (2)   | LER NU  | EXPIRES: 8/31   | PAGE (                                   | 3)   |
|   |  |  |   | YEAR SEQU   | ENTIAL AEVISION   |  | <u>,,,,,</u> ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, |
| Palo Vero   | le Unit 1<br>red. use additional NAC Form 3054/2/(1)71   |  | 0   0   0   5   2   8   | 8 7 - 0   | 1 6 - 0 1   | 014 0F                                   | 0   4  |
| Testing<br>the Aux<br>area ar<br>that 30<br>High Ef<br>subatmo<br>test re<br>to the | y was performed in<br>ciliary Building an<br>od the atmosphere u<br>000 cfm was being e<br>ficiency Particula<br>ospheric pressure o<br>esults and the Fina<br>atmosphere would s<br>erefore would not a               | Palo Verde United<br>d differential<br>onder worst case<br>vacuated to the<br>te Air and Cha<br>f -0.120" (wat<br>l Safety Analy<br>till be withir | pressure bet<br>c conditions.<br>e essential A<br>prcoal Filters<br>er gauge). B<br>vsis Report LO<br>the allowabl                | ween the E<br>The resu<br>FU (consis<br>[FLT]) ob<br>ased on a<br>CA analysi<br>e 10 CFR P  | SF pump roo<br>lts indicat<br>ting of bot<br>taining a<br>review of t<br>s, the rele<br>art 100 lim | m<br>e<br>h<br>he<br>ases<br>its         |  |
| determi   | ring Evaluation 87<br>ined that dose cont<br>foot level are ne   | ributions to P   |   |   |   | 0\V                                      |  |
| ventila<br>determi<br>of the<br>High Pr<br>(LPSI)(<br>taken o<br>100 foo<br>gasses  | gas testing was pe<br>tion in service si<br>ne transport from<br>Auxiliary Building<br>essure Safety Inje<br>BP), and "A" Conta<br>n the 100 foot and<br>t level. The test<br>in the "B" HPSI, "<br>ected above the 10 | mulating a SIA<br>below the 100<br>. On August 2<br>ction (HPSI)(B<br>inment Spray (<br>above levels.<br>was repeated<br>B" LPSI, and "            | S without a 1<br>foot level to<br>2, 1987 gas w<br>Q), "A" Low P<br>CS)(BE) pump<br>No tracer g<br>on August 23,<br>B" CS pump ro | oss of pow<br>above the<br>as injecte<br>ressure Sa<br>rooms. Sa<br>as was det<br>1987 with | er in order<br>100 foot 1<br>d into the<br>fety Inject<br>mples were<br>ected above<br>the inject   | evel<br>"A"<br>ion<br>then<br>the<br>ion |  |
| concent<br>Therefo  | pon the sensitivit<br>rations, isolation<br>re, dose contribut<br>vel are negligible   | of better tha<br>ions to PASS h  | n 50,000 to o   | ne was ach  | ieved.  | e 100                                    |  |
| start o<br>the eve<br>contrib   | ere no structures,<br>f the event, other<br>nt. There were no<br>uted to the event.<br>system responses.   | than those pr<br>unusual chara   | eviously desc<br>cteristics of  | ribed, tha<br>the work  | t contribute<br>location wh   | ed to                                    | e  |
| inopera   | ave been no previo<br>bility of two inde<br>priate scheduling  | pendent trains   | of a safety   |   |   | the                                      |  |
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