LICENSEE EVENT REPORT UPDATE REPORT PREVIOUS REPORT DATE: 3/29/82
CONTROL BLOCK:
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iesel generator 1G-21 tripped in start sequence. As required by Technica
1 Specification 3.8.B.1, a 7-day LCO was entered. The redundant diesel g
enerator was operable. The 7-day LCO ended after approximately 8 hours w
o   6   hen 1G-21 was made operable. Subsequent testing demonstrated engine woul
o t d have started with an auto start signal present. There have been no pre
ola Livious similar occurrences.
SYSTEM CAUSE CODE SUBCODE SUBC
Diesel trip caused by procedural deficiency which allowed both fuel nil
filters on 1G-21 to be changed without properly filling and venting the
[1] [ filter casings. This caused the engine to trip from fuel starvation. Fue
[1] [ ] oil system was primed and vented and engine tested sat. To preclude re
Corrence, maintenance procedures have been written.
STATUS OF OISCOVERY DESCRIPTION 32
ACTIVITY CONTENT RELEASED OF RELEASE AMOUNT OF ACTIVITY 35  1 6 Z 30 Z 34 NA  PERSONNEL EXPOSURES  AMOUNT OF ACTIVITY 35  NA  NA  AMOUNT OF ACTIVITY 35
TYPE DESCRIPTION (39)  TO D D D D TYPE DESCRIPTION (39)  TERSONNEL INJURIES 13
OSS OF OR DAMAGE TO FACILITY (4)
I Z O NA
PUBLICITY ISSUED DESCRIPTION (S)  NAC USE ONLY  IN (4) NA
B204120231 B20405 PDR ADDCK 05000331 S PDR John D. Van Sickel PHONE 319-851-5611

# DUANE ARNOLD ENERGY CENTER IOWA ELECTRIC LIGHT AND POWER COMPANY

LICENSEE EVENT REPORT - SUPPLEMENTAL DATA
DOCKET NO. 050-0331

Licensee Event Update Report Date: 4/5/82

Reportable Occurrence No. 82-020

#### Event Description:

During normal operation while performing the monthly surveillance testing, standby diesel generator 1G-21 tripped in the start sequence before reaching the rated frequency and voltage. As required by Technical Specification 3.8.B.1 for an inoperable diesel generator, a 7-day limiting condition for operation (LCO) was entered. The redundant standby diesel generator, 1G-31 was operable. The 7-day LCO was ended after approximately 8 hours when 1G-21 was made operable. There have been no similar previous occurrences.

#### Cause Description:

The diesel generator trip was caused by a procedural deficiency which allowed both fuel oil filters on diesel generator 1G-21 to be changed on February 25, 1982 without requiring that the filter casings be properly filled and vented. This caused 1G-21 to trip from fuel starvation during the start sequence.

At the time, it was mistakenly believed that the fuel oil filters were to be changed without making the diesel generator inoperable. Thus 1G-21 was not declared inoperable when its filters were changed. For the same reason, post maintenance operability testing was not performed.

## Corrective Action:

The fuel oil system for diesel generator 1G-21 was primed and vented. Then 1G-21 was functionally tested satisfactorily and made operable to end the 7-day LCO entered that day.

To prevent recurrence, maintenance procedures for diesel generator fuel oil filter maintenance have been developed.

Administrative controls will be modified to assure post maintenance operability of safety related equipment. These changes will include a mechanism to ensure that safety related maintenance is performed in accordance with adequate maintenance procedures. In addition, an independent review by qualified personnel to verify the adequacy of post maintenance operability testing will be required. These changes will be in place by May 15, 1982.

Special testing was performed on 4/4/82 which simulated an automatic start of the 1G-21 standby generator. Prior to the test the conditions present after the maintenance was performed on February 25, 1982 were recreated, i.e., the fuel oil filters were changed and the filter casings were not refilled with fuel oil.

# DUANE ARNOLD ENERGY CENTER IOWA ELECTRIC LIGHT AND POWER COMPANY LICENSEE EVENT REPORT - SUPPLEMENTAL DATA DOCKET NO. 050-0331

Licensee Event Update Report Date: 4/5/82

Reportable Occurrence No. 82-020

### Corrective Action (Cont.)

During the first test 1G-21 started and reached rated speed and voltage 30.2 seconds after automatic start initiation. The time specified in the DAEC FSAR is 10 seconds. A second test was conducted during which 1G-21 reached rated speed and voltage in 30.3 seconds. The completed test procedures are available for review on site. This testing was witnessed by the NRC Resident Inspector.

The NSSS vendor has been requested to evaluate the effect of this delayed start time for 1G-21 on the DAEC Accident Analysis.