

LICENSEE: WOLF CREEK NUCLEAR OPER. CORP.
SITE: WOLF CREEK 1 EN NUMBER: 26561
DOCKET: 05000482 EVENT DATE: 01-04-94
RX TYPE: PWR EVENT TIME: 12:30
VENDORS: W-4-LP NOTIFY DATE: 01-04-94
EMERGENCY CLASS: N/A REGION: 4 STATE: KS TIME: 13:55
OPS OFFICER: TIM MCGINTY
10 CFR SECTION: AIND 50.72(b)(2)(iii)(D) ACCIDENT MITIGATION
UNIT SCRAM RX INIT INITIAL MODE CURR CURRENT MODE
CODE CRIT PWR PWR
1 N Y 98 POWER OPERATION 98 POWER OPERATION

THE LICENSEE REPORTED THAT A PARTICULAR TYPE OF INDICATING LAMP THAT WAS INSTALLED ON VARIOUS MOTOR CONTROL CENTERS (MCC'S) COULD POTENTIALLY BLOW CONTROL POWER TRANSFORMER FUSES, RENDERING SAFETY SYSTEMS INOPERABLE.

ON 12/14/93 AT 0720 CST, AN ESFAS (ENGINEERED SAFETY FEATURES ACTUATION) ANNUNCIATOR WAS RECEIVED FOR THE CENTRIFUGAL CHARGING PUMP ROOM COOLER. UPON INSPECTION OF THE MCC CUBICLE, IT WAS DISCOVERED THAT THE CONTROL POWER TRANSFORMER SECONDARY FUSE HAD BLOWN AND THE GREEN INDICATING LIGHT LENS WAS DISCOLORED WITH A HOLE MELTED IN IT. THE LICENSEE REPLACED THE FUSE AND THE LAMP AND RETURNED IT TO SERVICE.

A SUBSEQUENT EVALUATION REVEALED THAT THE FILAMENT FOR THE INDICATING LIGHT ON THE MOTOR CONTROL CENTER BECAME CROSSED, LOWERING THE RESISTANCE (DRAWING MORE CURRENT) AND BLOWING THE CONTROL POWER TRANSFORMER SECONDARY FUSE. THEREFORE, THE LICENSEE HAS CONCLUDED THAT THE MCC'S THAT USE THIS PARTICULAR INDICATING LAMP COULD HAVE A SIMILAR PROBLEM, POTENTIALLY RENDERING THE ASSOCIATED SAFETY SYSTEMS INOPERABLE. THE LICENSEE HAS REMOVED THE LIGHTS FROM THE SOCKETS (FINDING SEVERAL FILAMENTS SOMEWHAT CROSSED), THEREBY REMOVING THE FAILURE MODE. NO OTHER COMPENSATORY MEASURES ARE REQUIRED AT THIS TIME, AND NO SAFETY SYSTEMS HAVE BEEN DECLARED INOPERABLE. THE LICENSEE WILL BE REPLACING WITH A DIFFERENT TYPE OF LAMP.

THE PARTICULAR INDICATING LAMP INVOLVED WAS TERMED BY THE CALLER AS A "120 MB" TYPE, AND IS BELIEVED TO HAVE BEEN USED FOR YEARS. THE FILAMENT IS "W" SHAPED WITH LONG FILAMENT STRANDS. THE CALLER DIDN'T HAVE AN INCLUSIVE LIST OF ALL THE MCC "120 MB" TYPE INDICATING LAMPS THAT HAD BEEN REMOVED AS A RESULT, BUT ESTIMATED THE NUMBER AT 50 OR 60. SOME OF THE TYPICAL SYSTEMS AFFECTED WERE:

- SAFETY INJECTION PUMP ROOM COOLER
- RHR PUMP ROOM COOLER
- CONTAINMENT SPRAY PUMP ROOM COOLER

- HYDROGEN MIXING FANS
- PENETRATION ROOM COOLER
- CONTROL ROOM PRESSURIZATION FAN

THE LICENSEE WILL INFORM THE RESIDENT INSPECTOR.

LICENSEE: GULF STATES UTILITIES CO.

SITE: RIVER BEND 1 EN NUMBER:26652
DOCKET: 05000458 EVENT DATE: 01-20-94
RX TYPE: BWR EVENT TIME: 15:15
VENDORS: GE-6 NOTIFY DATE: 01-20-94
EMERGENCY CLASS: N/A REGION: 4 STATE: LA TIME: 19:22

OPS OFFICER: THOMAS ANDREWS

10 CFR SECTION: AINA 50.72(b)(2)(iii)(A) POT UNABLE TO SAFE SD
AINB 50.72(b)(2)(iii)(B) POT RHR INOP
AIND 50.72(b)(2)(iii)(D) ACCIDENT MITIGATION

UNIT	SCRAM	RX	INIT	INITIAL MODE	CURR	CURRENT MODE
	CODE	CRIT	PWR		PWR	
1	N	Y	100	POWER OPERATION	100	POWER OPERATION

FOLLOWING REVIEW OF NUCLEAR NETWORK EVENT NUMBER 6394 THAT OCCURRED AT WOLF CREEK ON 01/04/94 (REFERENCE NRC EVENT NUMBER 26561), THE LICENSEE DISCOVERED THAT LIGHT BULBS INSTALLED IN THE LOCAL PANELS FOR STANDBY COOLING TOWER COOLING FANS WERE NOT QUALIFIED FOR USE IN "Q CLASS 1" SYSTEMS. OPERABILITY OF THE STANDBY SERVICE WATER SYSTEM WAS QUESTIONABLE. A SHORT IN ONE OF THESE BULBS COULD RESULT IN A BLOWN FUSE SUPPLYING THE "CAT 1" START CIRCUIT. THE LICENSEE THEN DECLARED THE STANDBY SERVICE WATER SYSTEM INOPERABLE.

THE LIGHT BULBS (40 TOTAL) IN THE LOCAL PANEL WERE REMOVED AS RECOMMENDED BY DESIGN ENGINEERING. THIS ACTION RESTORED STANDBY SERVICE WATER TO OPERABLE SINCE "CAT 1" REMOTE LIGHTING IS AVAILABLE IN THE CONTROL ROOM.

THE LICENSEE KNOWS OF NO FAILURES IN THESE LIGHT BULBS AND SUBSEQUENT FAILURE OF "CAT 1" FUSES AT THIS TIME. FURTHER REVIEW OF PLANT RECORDS IS TO BE DONE BY THE LICENSEE TO VERIFY THAT NO PREVIOUS FAILURES HAVE OCCURRED.

THE NRC RESIDENT INSPECTOR HAS BEEN NOTIFIED.

* * * UPDATE 02/01/94 1921EST FROM:LORFING BY:SCARFO * * *
THE FOLLOWING IS THE TEXT OF A FACSIMILE SUBMITTED BY THE LICENSEE:

"RBS WISHED TO WITHDRAW THE 50.72 NOTIFICATION MADE ON 01/20/94 AT 1922 EASTERN (EVENT 26652).

ML020860707.txt

ON 1/20/94, RBS REPORTED A CONDITION CONCERNING POTENTIAL FAILURE OF STANDBY COOLING TOWER FAN CIRCUITS DUE TO SHORTING OF LIGHT BULBS IN THE CIRCUIT WHICH COULD CAUSE THE CIRCUIT FUSE TO BLOW. THIS WAS POSTULATED TO OCCUR DURING A SEISMIC EVENT.

SUBSEQUENT ANALYSIS AND TESTING HAVE SHOWN THE BULBS TO BE SEISMICALLY INSENSITIVE. THE ANALYSIS HAS SHOWN THAT FAILURE OF FAN CIRCUITS DUE TO THIS FAILURE MECHANISM IS NOT CREDIBLE AND THE CONDITION IS NOT REPORTABLE."
END OF TEXT.

THE LICENSEE IS RETRACTING THIS EVENT ON THE BASIS THAT THE STANDBY COOLING TOWER FANS WOULD NOT BE RENDERED INOPERABLE EVEN IF A SHORT CIRCUIT WERE TO OCCUR IN THE LIGHT BULBS. MEASUREMENTS TAKEN BY THE LICENSEE INDICATE THAT A SHORT CIRCUIT IN THE LIGHT BULB INDICATIONS WOULD NOT BURNOUT THE PROTECTIVE FUSES IN THE FAN CONTROL CIRCUITRY. THEREFORE, THE STANDBY COOLING TOWER FANS WOULD REMAIN OPERABLE AND PERFORM THEIR FUNCTION AFTER THE LIGHT BULB INDICATIONS FAIL. THE LICENSEE INFORMED THE NRC RESIDENT INSPECTOR. R4DO(JOHNSON) NOTIFIED.