

# LICENSEE EVENT REPORT

50-285/76-25

CONTROL BLOCK

[PLEASE PRINT ALL REQUIRED INFORMATION]

LICENSEE NAME 01 H E F C S J														LICENSE NUMBER 00-000000-00										LICENSE TYPE 41111					EVENT TYPE 03								
CATEGORY 01 CONT														REPORT TYPE L		REPORT SOURCE L		DOCKET NUMBER 050-0285										EVENT DATE 081576					REPORT DATE 083076				

## EVENT DESCRIPTION

02 During normal plant operation 4160 volt breaker T1B-3B tripped on instantaneous over-																																																																															
03 current relaying de-energizing 4160/480 volt transformer T1B-3B and 480 volt bus 1B3B.																																																																															
04 Visual inspection and electrical tests on transformer T1B-3B revealed two of three																																																																															
05 phases to be internally faulted. (LER 50-285/76-25)																																																																															
06																																																																															

SYSTEM CODE EB		CAUSE CODE E		COMPONENT CODE TRANSEF				PRIME COMPONENT SUPPLIER A		COMPONENT MANUFACTURER GO80				VIOLATION N	
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## CAUSE DESCRIPTION

08 A General Electric, Co., type transformer (4160/480 volt, 3 phase, delta-delta 1000/																																																																															
09 1333 KVA) apparently faulted internally causing overcurrent trip of 4160 volt breaker																																																																															
10 T1B-3B. An equivalent transformer has been installed.																																																																															
FACILITY STATUS E		% POWER 028		OTHER STATUS NA		METHOD OF DISCOVERY A		DISCOVERY DESCRIPTION NA																																																																							
FORM OF ACTIVITY RELEASED Z		CONTENT OF RELEASE Z		AMOUNT OF ACTIVITY NA		LOCATION OF RELEASE NA																																																																									

## PERSONNEL EXPOSURES

NUMBER 000		TYPE Z		DESCRIPTION NA																																																																											
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## PERSONNEL INJURIES

NUMBER 000		DESCRIPTION NA																																																																											
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## OFFSITE CONSEQUENCES

15 NA																																																																															
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## LOSS OR DAMAGE TO FACILITY

TYPE Z		DESCRIPTION NA																																																																											
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## PUBLICITY

17 NA																																																																															
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## ADDITIONAL FACTORS

18 See Attachments No. 1, 2 and 3.																																																																															
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19																																																																															
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NAME: J. M. Nagl/J. L. Connolley

PHONE: 402-426-4011

Safety Analysis

The plant electrical system is so designed that no single failure can jeopardize enough equipment to safely shutdown the plant. During the time bus 1B3B was de-energized; all redundant equipment necessary for safe plant operation was operable.

Bus 1B3B provides power to safety equipment AC-3A (Component Cooling Water Pump) and Motor Control Center 3B1 feeding Battery Charger #1 and several Safety Injection Valves. At the time power was lost to bus 1B3B, backup component cooling water pumps AC-3B and AC-3C started automatically and Battery Charger #3 was manually placed in operation. Adequate redundant safety injection valves remained operable as they are fed from other 480 volt buses via Motor Control Centers.

After the internally faulted 4160V/480V transformer T1B-3B, feeding 480V bus 1B3B, was secured, bus tie breaker BT-1B3B was closed re-energizing bus 1B3B and providing power to all loads associated with this bus.

Corrective Action

At 0151 hours on August 15, 1976, power to Bus 1B3B was lost due to automatic tripping of 4160 volt breaker T1B-3B.

After determining that no bus fault had occurred on 480 volt bus 1B3B, bus tie breaker BT-1B3B was closed re-energizing the bus at 0315 hours on August 15, 1976. Maintenance Order No. 11629 was issued to determine the cause of 4160 volt breaker T1B-3B trip. Visual inspection and electrical test revealed 4160/480 volt transformer T1B-3B had internal faults.

An equivalent transformer to the one that failed (4160/480 volt, 3 phase, delta-delta, 1000/1333 KVA) was located. Maintenance Order No. 11635 was issued and approved to replace transformer T1B-3B. This transformer (4160/480 volt, 3 phase, delta-delta, 1200/1600 KVA) was installed, tested, and placed in service at 1325 hours on August 16, 1976.

However, to comply with Technical Specification 2.7(2)d, the plant was placed in a hot shutdown condition in the evening of August 15, 1976.

The faulted transformer has been returned to the factory for repairs and tests and will be installed during the 1976 Refueling Outage.

LER 50-285/76-25  
Page Four

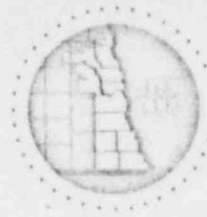
ATTACHMENT NO. 3

Failure Data

This is the first event of an internal fault on a 4160/480 volt transformer at the Fort Calhoun Station Unit No. 1.

# Omaha Public Power District

1623 HARNEY ■ OMAHA, NEBRASKA 68102 ■ TELEPHONE 536-4000 AREA CODE 402



August 31, 1976  
FC-256-76

Mr. E. Morris Howard  
U. S. Nuclear Regulatory Commission  
Region IV  
611 Ryan Plaza Drive  
Suite 1000  
Arlington, TX 76012



Dear Mr. Howard:

Reference: Fort Calhoun Station Unit No. 1  
Docket No. 50-285

In accordance with the Fort Calhoun Station's Technical Specifications, the Omaha Public Power District, as holder of facility operating license DPR-40, submits three copies of the following licensee event report 50-285/76-25 to satisfy the requirements of Regulatory Guide 1.16.

Sincerely,

W. C. Jones  
Section Manager  
Operations

WCJ/WDD:rge

Enclosures

cc: Director, Office of Management  
Information and Program Control  
U. S. Nuclear Regulatory Commission  
Washington, DC 20555 (3)

Director, Office of Inspection and  
Enforcement  
U. S. Nuclear Regulatory Commission  
Washington, DC 20555 (30)

Mr. L. C. Shalla .  
SARC Chairman  
PRC Chairman  
Fort Calhoun File (2)

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