

#### UNITED STATES NUCLEAR REGULATORY COMMISSION WASHINGTON, D. C. 20555

	SAFETY	EVALUA	ATION	REPO	DRT	
GENERIC	LETTER	83-28	B, IT	EM 2.	1, P	ART 1
EQUIPMEN	IT CLASS	IFICA	TION	(RTS	COMP	ONENTS)
BEAVER	VALLEY	POWER	STAT	ION,	UNIT	\$ 1,2
	DOCKET	NOS.	50-3	34/41	12	

# INTRODUCTION AND SUMMARY

On February 25, 1983, both of the scram circuit breakers at Unit 1 of the Salem Nuclear Power Plant failed to open upon an automatic reactor trip signal from the reactor protection system. This incident was terminated manually by the operator about 30 seconds after the initiation of the automatic trip signal. The failure of the circuit breakers was determined to be related to the sticking of the undervoltage trip attachment. Prior to this incident, on February 22, 1983, at Unit 1 of the Salem Nuclear Power Plant, an automatic trip signal was generated based on steam generator low-low level during plant start-up. In this case, the reactor was tripped manually by the operator almost coincidentally with the automatic trip.

Following these incidents, on February 28, 1983, the NRC Executive Director for Operations (EDO) directed the staff to investigate and report on the generic implications of these occurrences at Unit 1 of the Salem Nuclear Power Plant. The results of the staff's inquiry into the generic implications of the Salem unit incidents are reported in NUREG-1000, "Generic Implications of the ATWS Events at the Salem Nuclear Power Plant." As a result of this investigation, the Commission (NRC) requested (by Generic Letter 83-28 dated July 8, 1983<sup>1</sup>) all licensees of operating reactors, applicants for an operating license, and holders of construction permits to respond to generic issues raised by the analyses of these two ATWS events.

This report is an evaluation of the response submitted by Duquesne Light Company, the licensee for Beaver Valley Power Station, Unit 1, and applicant for Unit 2, for Item 2.1, Part 1 of Generic Letter 83-28. The actual documents reviewed as part of this evaluation are listed in the references.

Item 2.1, Part 1 requires the licensee and applicants to confirm that all reactor trip system components are identified, classified and treated as safety-related as indicated in the following statement:

Licensees and applicants shall confirm that all components whose functioning is required to trip the reactor are identified as safety-related on documents, procedures, and information handling systems used in the plant to control safety-related activities, including maintenance, work orders, and parts replacement.

### EVALUATION

Duquesne Light Company (DLC) responded to the requirements of Item 2.1, Part 1 with submittals dated November 4, 1983<sup>2</sup> and March 30, 1984<sup>3</sup>. DLC stated in these submittals that a classification list was developed to identify components

necessary to trip the reactor and that all such components were reviewed to verify that these components are classified as safety-related equipment. Some specific backup or anticipatory trip devices were excepted; however, the staff has found these exceptions to be acceptable. DLC further stated that these systems and components are identified as safety-related on relevant plant documents such as operating manuals, mechanical and electrical drawings, equipment specifications, and spare parts reports.

## CONCLUSION

Based on our review of these responses, we find DLC's statements confirm that a program exists for identifying, classifying and treating components that are required for performance of the reactor trip function as safety related. This program meets the requirements of Item 2.1, Part 1 of the Generic Letter 83-28, and is therefore acceptable.

#### Principal Contributor

D. Lasher (with technical assistance from EG&G Idaho, Inc.)

Dated: June 1986

## REFERENCES

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- NRC Letter, D. G. Eisenhut to all Licensees of Operating Reactors, Applicants for Operating License, and Holders of Construction Permits, "Required Actions Based on Generic Implications of Salem ATWS Events (Generic Letter 83-28)," July 8, 1983.
- Letter, J. J. Carey, Duquesne Light Co., to D. G. Eisenhut, NRC, November 4, 1983.
- Letter, E. J. Woolever, Duquesne Light Co., to D. G. Eisenhut, NRC, March 30, 1984.
- 4. Report No. EGG-NTA-7212, \*EG&G Idaho, Inc., April 1986.