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FAGIL:50-400 Shearon Harris Nuclear Power Plant, Unit 1, Carolina 05000400
AUTH.NAME AUTHOR AFFILIATION
STERUD,C.G. Control Components, Inc.
RECIP.NAME RECIPIENT AFFILIATION
HINNUNT,S. Carolina Power & Light Co.

SUBJECT: Discusses potential significant deficiency under 10CFR-21 re atmospheric dump valves.

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NOTES:Application for permit renewal filed.

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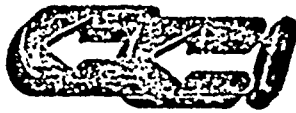
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Control Components Inc.

An IMI valve company

FAX: ☐ ☒

June 28, 1989

JUN 28 1989

TIME 4:40 #1484

Mr. Scot Hinnant
Plant General Manager
Carolina Power & Light
Shearon Harris Nuclear Plant
HNP-OP5-RLC-BLDG
P.O. Box 165, SR-1134
New Hill, N. Carolina 27562

Subject: Atmospheric Dump Valves
CCI W.O.# 21739-1,2,3 & 4
Potential Significant Deficiency
Under 10CFR-21

Reference: APS - Palo Verde
Telecon 3/29/89

Dear Mr. Hinnant:

We are hereby notifying you of a potential significant deficiency that may be reportable under the requirements of 10CFR-21. We are not reporting this directly to the Nuclear Regulatory Commission (NRC). We at CCI do not have the systems expertise that would permit us to decide if this is a significant deficiency. However, because of the NRC's interest and their prior contact for information regarding plants with a similar design, we have sent a copy to Rich Lobel of the Events Assessments group in Washington D.C.

On March 29, 1989 we sent a letter to Mr. Bill Hindman at your plant stating that there was sufficient actuator force to overcome a potential high load required to open the subject valve. This was based on the assumption that the capability of the actuator was 20,000 lbs. The 20,000 lbs is in error. The maximum actuator load available is 9,000 lbs. The actuator load required (worst case) is approximately 16,047 lbs. It is necessary to modify the trim inside the valve to reduce the maximum potential load required to open. We have a modified trim design with which the maximum load required to open (worst case) would be approximately 5,346 lbs.

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The modification required consist of the following:

1) New Plug Assembly

This assembly includes a plug with a larger pilot capacity, a new stem and new stem retaining plate. (The existing plug assembly cannot be modified to this new configuration.)

2) New Piston Ring Assembly

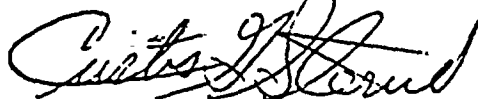
This new piston ring is an improved design for a much more consistent bleed control for valve function. Also included with the piston ring is a new bushing guide.

These new parts fit into the existing valves without any field modification required to the valves. Along with the trim modification the actuator load capability can be increased to provide added margin. The actuator is capable of an output thrust of 12,000 lbs. This requires adjustment of pressure switches inside the actuator and involves the actuator supplier to do a detailed review of the actuator specifications.

Please contact myself, Ron Adams, Larry Stratton or Herbert Miller at CCI if you should have any questions or need additional information.

Sincerely,

CONTROL COMPONENTS INC.



Curtis G. Sterud
Principal Engineer

/jff

cc: HLMiller
LRStratton
REAdams
RTremblay
SPerkinson
JWestmorland