From:Halter, MandySent:Monday, June 20, 2011 1:33 PMTo:'pbode@entergy.com'Subject:Part 21 - KASI MOV and AOV SoftwareAttachments:EN46955.pdf; KVAP-Software-for-AOV-&-MOV-design-basis-margin-
calculations-for-JOG-Program-Implementation-GL-96-05-Periodic-
Verification-margin-improvement.pdf

Paul,

Attached is the Part 21 that came out of Oconee (attached above EN 46955). The defect is related to errors in the Kalsi Engineering Valve and Actuator Program (KVAP) software that provide default flow and torque coefficients for ball and plug valves which can affect margin predictions.

Please confirm whether or not Indian Point has reviewed this issue for applicability.

Thanks and kind regards,

Mandy

Mandy Halter U.S. Nuclear Regulatory Commission Resident Inspector Indian Point Energy Center - Unit 3 (914) 739-8565

Attachment B

OMP 1-14

NRC Event Notification Worksheet

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NRC Event Notification Worksheet						
Notification Time	Facility or Organization	Unit	Caller's Name	Call Back #		
	Oconee Nuclear Station	1, 2, 3	Sandra Severance	ENS 256-9931 (864) 873-3466		

NRC Operations Officer Contacted:

(i) TS Required Shutdown

government agencies

(iv) (A) ECCS Discharge into RCS
 (iv) (B) RPS Actuation (while critical)
 (xi) News release/notification to other

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NRC Event Number:

Event Timc/Zone	Event Date	Power/Mode Before	Power/Mode After
1152 EST	6/7/2011	Unit 1: Mode 6	Unit 1: 100%
		Unit 2: 100%	Unit 2: 100%
		Unit 3: 100%	Unit 3: 100%

Event Classifications	8-Hour Non-Emergency 10 CFR 50.72 (b) (3)
General Emergency	(ii) (A) Degraded Condition
Site Area Emergency	(ii) (B) Unanalyzed Condition
Alert	(xiii) Loss of emergency assessment
	capability/offsite communications
Unusual Event	(iv) (A) System Actuation
50.72 Non-emergency (see other columns)	🗌 RPS
72.75 Spent Fuel (ISFSI)	Containment isolation
73.71 Physical Security	ECCS
Transportation	EFW
20.2202 Material/Exposure	Containment spray/coolers
26.73 Fitness for Duty	Emergency AC (Keowee Hydro)
Other: 21.21(d)(3)(i)	🔲 (v) (A) Safe Shutdown Capability
· · ·	(v) (B) Residual Heat Removal Capability
1-Hour Non-emergency 10 CFR 50.72 (b)(1)	(v) (C) Control of radiological material
Deviation from TS per 50.54(x)	(v) (D) Accident Mitigation
	 (xii) Transport contaminated person to offsite medical facility
4-Hour Non-Emergency 10 CFR 50.72 (b)(2)	

Attachment B

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NRC Event Notification Worksheet

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Event Description

(Include systems affected, actuations and their initiating signals, causes, effect of event on plant, actions taken or planned, etc.) Event: In KVAP Error Report 2011-02, Kalsi Engineering identified an error in the Kalsi Engineering Valve and Actuator Program (KVAP) software that provides default flow and torque coefficients for ball and plug valves which can affect margin predictions. Communication between Kalsi and Duke Energy personnel confirmed that non-conservative torque values were calculated for select ball valves used at Oconee for containment isolation. As a result of the Kalsi error, the non-conservatively calculated torque values resulted in negative actuator margins, calling into question the actuators' capability to close the valves under all design conditions. Therefore, it has been determined that the KVAP software program error constitutes a defect, reportable under 10CFR21.

Initial Safety Significance: Four safety-related containment isolation valves in the High Pressure Injection system were impacted, requiring entry into TS 3.6.3, Containment Isolation Valves, on two Oconee units.

Corrective Action(s):

1. Upon further calculation, two of the containment isolation valves were determined to have adequate margin and were declared operable.

2. Two other containment isolation valves required modifications to restore operability.

Anything unusual or not understood?		Yes (Explain above)	\boxtimes	No
Did all systems function as required?	\square	Yes		No (Explain above)
Mode of operations until corrected:		Estimated restart date:		

Docs event result in a radiological release, RCS leak, or steam generator tube	Yes (complete page 3)	\boxtimes	No	
leak?				

Docs the event result in any of the units experiencing a transient?		Yes (complete Oconee Plant Status sheet) No		
	Not	ifications		
NRC Resident: Andy Sabisch	Y/N/will be	Plant Manager:	Y/N/will be	
Notified By: Kent Aller	Time: 1540	Notified By:	Time:	
State(s): N/A	Y/N/will be	Operations Superintendent:	Y/N/will be	
Notified By:	Time:	Notified By:	Time:	
Local: NIA	Y/N/will be	Other Government Agencies:	Y Nwill be	
Notified By:	Time:	Notified By:	Time:	
Media/Press Release: N/A-	YN will be	Other: Poston Gillesoie	Wwill be	
Notified By:	Time	Notified By SN Swimany	Time /2.35	

Operations Shift Manager/Emergency Coordinator Approval:	Date/Time:
Janora & Jackson	06-13-11 1556
NRC Notification Complete by Caller/NRC Communicator:	Date/Time: