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ACCESSION NBR:8007220563 DOC.DATE: 80/07/16 NOTARIZED: NO  
 FACIL:50-269 Ocone Nuclear Station, Unit 1, Duke Power Co.  
 50-270 Ocone Nuclear Station, Unit 2, Duke Power Co.  
 50-287 Ocone Nuclear Station, Unit 3, Duke Power Co.  
 AUTH.NAME AUTHOR AFFILIATION  
 PARKER,W.O. Duke Power Co.  
 RECIP.NAME RECIPIENT AFFILIATION

DOCKET #  
 05000269  
 05000270  
 05000287

SUBJECT: RO:on 800709,high pH excursion in oil collection basin discharge was discovered.Caused by water discharged from upper sump of safe shutdown facility const,Const personnel advised of discharge limits & administrative controls will b

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 TITLE: Incident Reports

NOTES:M Cunningham:all amends to FSAR & changes to Tech Specs. 05000269  
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	A/D PLANT SYS	1	A/D RAD PROT	1
	A/D SFTY ASSESS	1	A/D TECHNOLOGY	1
	ACC EVAL BR	1	AEOD	10 1
	AUX SYS BR	1	CHEM ENG BR	1
	CONT SYS BR	1	CORE PERF BR	1
	D/DIR,HUM FAC S	1	DIR,ENGINEERING	1
	DIR,HUM FAC SFY	1	DIR,SYS INTEG	1
	EFF TR SYS BR	1	EMERG PREP	1
	EQUIP QUAL BR	1	GEOSCIENCES	1
	HUM FACT ENG BR	1	HYD/GEO BR	1
	I&C SYS BR	1	I&E 09	2
	JORDAN,E./IE	1	LIC GUID BR	1
	LIC QUAL BR	1	MATL ENG BR	1
	MECH ENG BR	1	MPA 11	3
	NRC PDR 02	1	OP EX EVAL BR	3
	OR ASSESS BR	1	POWER SYS BR	1
	PROC/TST REV BR	1	QA BR	1
	RAD ASSESS BR	1	REACT SYS BR	1
	<u>REG FILE</u> 01	1	REL & RISK A BR	1
	SFTY PROG EVAL	1	SIT ANAL BR	1
	STRUCT ENG BR	1	SYS INTERAC BR	1
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DUKE POWER COMPANY

POWER BUILDING

422 SOUTH CHURCH STREET, CHARLOTTE, N. C. 28242

WILLIAM O. PARKER, JR.  
VICE PRESIDENT  
STEAM PRODUCTION

July 16, 1980

TELEPHONE: AREA 704  
373-4083

Mr. James P. O'Reilly, Director  
U. S. Nuclear Regulatory Commission  
Region II  
101 Marietta Street, Suite 3100  
Atlanta, Georgia 30303

Re: Oconee Nuclear Station  
Docket Nos. 50-269, -270, -287

Dear Mr. O'Reilly:

On July 10, 1980, your office was notified of an occurrence that concerned a high pH excursion in the Oil Collection Basin (OCB) discharge at the Oconee Nuclear Station (ONS). This incident is reportable pursuant to Appendix B, Technical Specification 1.2, and therefore is described in the following paragraphs.

At 1740 hours on July 9, 1980, ONS personnel acknowledged an alarm on high pH in the OCB discharge. Sampling of the discharge confirmed the pH excursion and an investigation was initiated to identify and isolate the source of contamination. Technical Specification 1.2 of Appendix B requires that the pH of discharge water at ONS remain below 9.0. This pH excursion was observed to peak at 9.4 at 1915 hours and then to decline back within limits by 2115 hours on July 9, 1980.

The source of the high pH was identified as water discharged from the "upper" sump of the Safe Shutdown Facility (SSF) being erected on site. At 2000 hours on July 9, the pH of this sump was measured to be 11.25. Approximately 240 gallons of water had entered the upper sump of the SSF on July 9 after being used to clean a concrete pour bucket being used in the construction of the SSF. In addition, an undetermined amount of underground seepage water had entered the upper sump. This accumulated water was then pumped from the SSF upper sump into the yard drains. This had the effect of slugging the OCB with high pH water.

Other possible sources of contamination were examined and eliminated by verification of isolation from the OCB discharge or by sampling that found the pH to be within limits.

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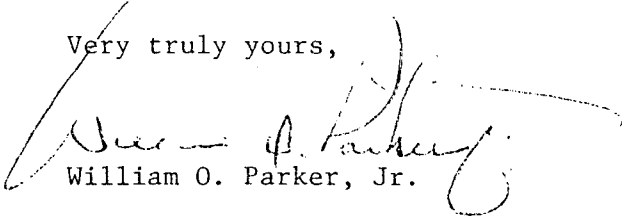
Mr. James P. O'Reilly, Director  
July 16, 1980  
Page Two

By the time that the source of contamination had been identified, the pH excursion had peaked and was trending downward. The concrete pour at the SSF had been completed and the sumps had already been pumped out. Thus no corrective action was taken.

The discharge from the OCB mixes with other small stream flows (springs, dam seepage, etc.) on its way to Lake Hartwell. This mixing and dilution has a pH buffering action that keeps the pH value around 7.5. In addition, Keowee Hydro Units 1 and 2 had been placed in service at 1230 hours on July 9, 1980 and remained in service until 2044 hours. This provided a large dilution flow into Lake Hartwell. Therefore, considering the short time span of the excursion (3.5 hours) and its small magnitude, this incident presented no significant hazard to the health and safety of the public.

To protect against a reoccurrence of this incident, personnel involved with construction of the SSF will be notified about the station discharge limits and the potential effects on the discharge resulting from water in the sumps. Administrative controls on pumping water from the sumps, such as sampling of the water prior to pumping, will be examined. Finally, during future concrete pours, the bucket will be washed out into the excavation beside the SSF where it will be absorbed into the soil.

Very truly yours,



William O. Parker, Jr.

FTP:scs

cc: Mr. H. R. Denton, Director  
Office of Nuclear Reactor Regulation  
U. S. Nuclear Regulatory Commission  
Washington , D. C. 20555