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Mr. James G. Keppler
Regional Administrator
Office of Inspection & Enforcement
Region III
U. S. Nuclear Regulatory Commission
799 Roosevelt Road
Glen Ellyn, IL 60137

Subject: Summary Status of Fuel Performance
Quad-Cities Nuclear Power Station, Unit 1, Docket Number
50-254, DPR-29

This report is submitted to you in accordance with the Special Report Requirements of Table 6.6-1, Docket Number 50-254, DPR-29.

COMMONWEALTH EDISON COMPANY
QUAD-CITIES NUCLEAR POWER STATION

R. L. Bax
Station Manager

cc J. Wojnarowski
D. Galle
H. Bliss

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PDR ADCK 05000254
P PDR

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QUAD-CITIES NUCLEAR POWER STATION

UNIT 1

SUMMARY STATUS OF FUEL PERFORMANCE
END OF CYCLE 8

May 1986

At the end of this reporting period, Quad-Cities Unit 1 had completed eight Reactor cycles of operation. During that time, 1964 fuel assemblies had seen duty in the Unit 1 core.

In January and February, 1986, 511 fuel assemblies were tested using dry out-of-core sipping equipment. Included in this total is a known leaker assembly discharged during a past refueling outage that was sipped to test the sensitivity of the equipment. One failed fuel assembly was identified; a total of 114 fuel assembly failures have occurred in Unit 1.

Upon closer examination, it was determined that fuel rod C8, in bundle LY7427 (once-burned), had failed. The bundle was reconstituted by General Electric using a new replacement fuel rod, successfully sip tested, and was installed in Unit 1 for further irradiation in Cycle 9.

Additional testing and examination of the four Barrier Lead Test Assemblies (LJB586, 587, 588 and 589) was performed in February, 1986. All four assemblies were visually inspected and sipped. Two segmented test rods were removed from bundles LJB586 and 587 and were replaced with two full length fuel rods from bundles LJB588 and 589. In addition, one segmented test rod and one water rod were removed from bundles LJB588 and 589. Fuel assemblies LJB586 and 587 were resipped following reconstitution and were reinserted into the core for further irradiation in Cycle 9. Fuel assemblies LJB588 and 589 were discharged.

For Unit 1 Cycle 9, 216 new LYD-P8X8R (barrier clad) assemblies were 100 percent visually inspected and loaded.

COMMONWEALTH EDISON COMPANY
NUCLEAR FUEL DATA BANK SYSTEM

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INSPECTION
RIS ASSEMBLY RC

			DATE	SEQ NO	INS TYPE	INS RESULT	COMMENTS	ERROR MESSAGE
YUA	LY7427	015	01/24/86		SDOC	F	INITIAL SIP	
YUA	LY7427	015	01/31/86		SDOC	P	RESIP AFT.RECON	

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