



**PECO NUCLEAR**

A Unit of PECO Energy

PECO Energy Company  
965 Chesterbrook Boulevard  
Wayne, PA 19087-5691

February 26, 1999

Docket No. 50-353

License No. NPF-85

U.S. Nuclear Regulatory Commission  
ATTN: Document Control Desk  
Washington, DC 20555

SUBJECT: Limerick Generating Station, Unit 2  
Reuse of Fuel Channels on Ex-Shoreham Fuel Bundles

Dear NRC Officials:

We are submitting for information only, an information update regarding the 92 ex-Shoreham fuel assemblies to be inserted in the core at Limerick Generating Station (LGS), Unit 2, for Cycle 6 operation. Attachment 1 (i.e., Figure 1) shows the location and description of these assemblies, in accordance with our commitment described in our letter to the NRC, dated July 3, 1996.

The original evaluation prepared by General Electric Company (GE), "Evaluation of Limerick Initial Core Channels for Re-Use on ex-Shoreham Fuel Bundles," dated April 1996, remains valid for this application.

If you have any questions, please do not hesitate to contact us.

Sincerely,

Garrett D. Edwards  
Director - Licensing

Attachment: As stated

cc: H. J. Miller, Administrator, Region 1, USNRC (w/attachment)  
A. L. Burritt, USNRC Senior Resident Inspector, LGS (w/attachment)  
R. R. Janati, PA Bureau of Radiological Protection (w/attachment)

9903100252 990226  
PDR ADOCK 05000353  
P PDR

Figure 1  
Limerick 2, Cycle 6, Loading Pattern  
Bundle Types

I	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
J															
1									6	4	3	6	19	19	19
2							7	18	18	18	18	18	6	6	6
3					4	3	18	18	18	18	15	18	18	15	18
4					3	18	18	18	15	18	5	18	2	18	2
5					3	18	18	5	18	5	18	2	11	2	18
6			4	3	18	5	5	18	5	18	2	18	2	18	2
7			3	18	18	5	15	5	18	2	11	2	18	2	11
8		7	18	18	5	18	5	18	2	18	2	18	2	18	2
9	6	18	18	15	18	5	18	2	18	2	18	2	18	2	11
10	4	18	18	18	5	18	2	18	2	11	2	15	2	18	2
11	3	18	15	5	18	2	11	2	18	2	15	2	11	2	15
12	6	18	18	18	2	18	2	18	2	15	2	18	2	18	2
13	19	6	18	2	11	2	18	2	18	2	11	2	18	2	15
14	19	6	15	18	2	18	2	19	2	18	2	18	2	18	2
15	19	6	18	2	18	2	11	2	11	2	15	2	15	2	15

Note: Quarter Core Map (Upper Left-hand Quadrant)

Fuel Type	Description	Initial Enrichment %	Exposure
2	GE13	4.12	Fresh
3	Shoreham GE6 (reused channels)	2.19	Fresh
4	Shoreham GE6 (reused channels)	1.76	Fresh
5	GE13	4.12	Fresh
6	Shoreham GE6 (reused channels)	2.19	Fresh
7	Shoreham GE6 (reused channels)	1.76	Fresh
11	GE11	3.54	Twice Burned
15	GE11	3.99	Twice Burned
18	GE13	4.12	Once Burned
19	Shoreham GE6 (reused channels)	2.19	Once Burned