

March 2, 2001

Docket Nos. 50-352  
50-353

License Nos. NPF-39  
NPF-85

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

SUBJECT: Limerick Generating Station, Units 1 and 2  
Reuse of Fuel Channels on Ex-Shoreham Fuel Bundles

Reference: Letter from G. A. Hunger, Jr. (PECO Energy Company) to  
U. S. Nuclear Regulatory Commission, dated July 3, 1996

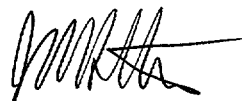
Dear Sir/Madam:

We are submitting for information only, an update regarding the 91 ex-Shoreham fuel assemblies with reused channels that will remain in the reactor core for their second cycle at Limerick Generating Station (LGS), Unit 2, for Cycle 7 operation. Attachment 1 (i.e., Figure 1) shows the location and description of these assemblies, in accordance with our commitment described in our Reference 1 letter.

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. This will be the last update regarding these channels.

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

Sincerely,



James A. Hutton  
Director - Licensing

Attachment

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)  
C. Gratton - Senior Project Manager, USNRC (w/attachment)

AD001

**Figure 1**  
**Limerick 2, Cycle 7, Loading Pattern**  
**Bundle Types**

I	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
J															
1									18	18	4	3	4	3	6 60
2								3	6	18	18	18	18	18	18 58
3						18	7	6	18	2	2	2	2	2	2 56
4						6	18	18	18	9	11	11	9	9	11 54
5					3	6	18	5	9	2	9	5	9	2	18 52
6			18	6	6	18	5	9	9	9	5	9	5	9	5 50
7			7	18	18	5	11	2	9	2	10	2	9	2	10 48
8		15	6	18	5	9	2	11	2	8	2	10	2	9	2 46
9	18	6	18	18	9	9	9	2	8	2	8	2	8	18	9 44
10	18	18	2	9	2	9	2	8	2	8	2	8	2	9	2 42
11	4	18	2	11	9	5	10	2	8	2	11	18	9	2	11 40
12	3	18	2	11	5	9	2	10	2	8	18	5	2	8	2 38
13	4	18	2	9	9	5	9	2	8	2	9	2	9	2	9 36
14	3	18	2	9	2	9	2	9	18	9	2	8	2	9	2 34
15	6	18	2	11	18	5	10	2	9	2	11	2	9	2	18 32
	1	3	5	7	9	11	13	15	17	19	21	23	25	27	29 X

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

Fuel Type	Description	Initial Enrichment %	Number of Assemblies	Exposure
2	GE13	4.12	208	Once Burned
3	Shoreham GE6 (reused channels)	2.19	27	Once Burned
4	Shoreham GE6 (reused channels)	1.76	16	Once Burned
5	GE13	4.12	52	Once Burned
6	Shoreham GE6 (reused channels)	2.19	40	Once Burned
7	Shoreham GE6 (reused channels)	1.76	8	Once Burned
8, 9, 10, & 11	GE14	4.03	268	Fresh
15	Shoreham GE6 (new channel)	2.19	1	Once Burned
18	GE13	4.12	144	Twice Burned