



October 18, 2011

UN#11-259

Steven D. Foster, PE
Chief, Engineering Access Permits Division
Office of Highway Development
Maryland State Highway Administration (SHA)
707 N. Calvert Street, Mailstop C-302
Baltimore, Maryland 21202

Subject: Calvert Cliffs Nuclear Power Plant Unit 3
Supplemental Intersection Analysis Results

References: 1) Letter from Stephen D. Foster (SHA) to Edward A. Miller, (UNE), "Calvert County MD2/4 Calvert Cliffs Nuclear Power Plant Traffic Impact Study Milepoint 8.00 SHA Tracking No. 09-AP-CA-020," dated July 28, 2011
2) Letter from Susan Shaw (Calvert County Board of County Commissioners) to Stephen D. Foster (SHA), dated July 7, 2011

Dear Mr. Foster:

The referenced letters requested additional information regarding intersections associated with the proposed construction of Calvert Cliffs Nuclear Power Plant Unit 3. Enclosed please find the table entitled, "Calvert Cliffs Nuclear Power Plant 3, Supplemental Intersection Analysis Results, October 7, 2011," (Enclosure 1) and the figure entitled, "Calvert Cliffs Nuclear Power Plant 3, Supplemental Intersection Analysis Results," October 7, 2011 (Enclosure 2).

If you have any questions regarding this transmittal, please contact me at (410) 369-1906 or Ed Miller of my staff at (443) 569-9220 or edward.miller@constellation.com.

Sincerely,

A handwritten signature in blue ink, appearing to read "D. Lutchenkov", with a long horizontal line extending to the right.

Dimitri Lutchenkov

Enclosures: 1. Calvert Cliffs Nuclear Power Plant 3, Supplemental Intersection Analysis Results, October 7, 2011
2. Calvert Cliffs Nuclear Power Plant 3, Supplemental Intersection Analysis Results, October 7, 2011

cc: Terry Carlson – Director, Calvert County Department of Public Works
Frank Coxon – Maryland State Highway Administration
Susan Gray – Power Plant Research Program, MD DNR
Brent Hare – Maryland Energy Administration (w/o enclosure)
Kirk McClelland – Director, Office of Highway Development, MD SHA (w/o enclosure)
WR McShane – KLD Engineering PC (w/o enclosure)
Laura Quinn – NRC Project Manager, Environmental Projects
Lee Starkloff - District Engineer, MD SHA (w/o enclosure)
Kim Tran – Assistant District Engineer – Traffic, District 5, MD SHA (w/o enclosure)
Linda Vassallo – Director of Economic Development, Calvert County (w/o enclosure)
Greg Welker – Deputy Administrator, Chief Engineer of Operations, MD SHA (w/o enclosure)

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**Enclosure 1
Calvert Cliffs Nuclear Power Plant 3,
Supplemental Intersection Analysis Results,
October 7, 2011**

Calvert Cliffs Nuclear Power Plant 3
 Supplemental Intersection Analysis Results
 October 7, 2011

| Intersection |
|--------------------------------------|
| MD 4 at Town Center Boulevard |
| MD 4 at Ward Road |
| MD 4 at Fowler Road |
| MD 4 at Chaneyville Road |
| MD 2/MD 4 at Ponds Wood Road |
| MD 2/MD 4 at Huntingtown High School |
| MD 2/MD 4 at MD 524 and Cox Road |
| MD 2/MD 4 at MD 263 |
| MD 2/MD 4 at Stoakley Road |
| MD 2/MD 4 at Steeple Chase Drive |
| MD 2/MD 4 at MD 402 |
| MD 231 at Prince Frederick Boulevard |

| Existing | | | |
|----------|------|---------|------|
| AM Peak | | PM Peak | |
| LOS | v/c | LOS | v/c |
| C | 0.75 | D | 0.83 |
| D | 0.83 | F | 1.02 |
| C | 0.80 | B | 0.67 |
| E | 0.96 | E | 0.93 |
| C | 0.81 | B | 0.68 |
| C | 0.79 | A | 0.50 |
| E | 0.95 | E | 0.96 |
| D | 0.82 | B | 0.63 |
| E | 0.95 | F | 1.08 |
| -- | -- | B | 0.67 |
| C | 0.77 | E | 0.97 |
| A | 0.53 | C | 0.80 |

| 2016 Background* | | | |
|------------------|------|---------|------|
| AM Peak | | PM Peak | |
| LOS | v/c | LOS | v/c |
| D | 0.89 | F | 1.02 |
| E | 0.97 | F | 1.14 |
| E | 0.92 | C | 0.78 |
| F | 1.02 | F | 1.01 |
| D | 0.91 | C | 0.80 |
| D | 0.86 | A | 0.55 |
| F | 1.01 | F | 1.05 |
| E | 0.92 | B | 0.71 |
| F | 1.06 | F | 1.18 |
| -- | -- | C | 0.74 |
| D | 0.84 | F | 1.10 |
| A | 0.58 | D | 0.87 |

| 2016 Construction* | | | |
|--------------------|------|---------|------|
| AM Peak | | PM Peak | |
| LOS | v/c | LOS | v/c |
| D | 0.89 | F | 1.17 |
| E | 0.97 | F | 1.29 |
| E | 0.92 | E | 0.92 |
| F | 1.02 | F | 1.16 |
| D | 0.91 | F | 1.18 |
| D | 0.86 | E | 0.93 |
| F | 1.18 | F | 1.27 |
| F | 1.03 | F | 1.16 |
| F | 1.06 | F | 1.63 |
| -- | -- | F | 1.18 |
| F | 1.03 | F | 1.35 |
| A | 0.58 | E | 0.98 |

* Includes improvements planned by others (TIS based).
 -- Data is not available

Enclosure 2
Calvert Cliffs Nuclear Power Plant 3,
Supplemental Intersection Analysis Results,
October 7, 2011

