

November 2, 2006

U.S. Nuclear Regulatory Commission  
Document Control Desk  
Washington, DC 20555-0001

**DOCKETS 50-155 AND 72-043 – LICENSE DPR-6 – BIG ROCK POINT PLANT –  
TRANSMITTAL OF ERRATA PAGES TO SURVEY PACKAGES IN SUPPORT  
OF BIG ROCK POINT PHASED LICENSE TERMINATION**

References:

1. Big Rock Point to U.S. NRC dated October 10, 2006, Transmittal of Survey Packages in Support of Big Rock Point Phased License Termination
2. Big Rock Point to U.S. NRC dated October 27, 2006, Transmittal of Survey Packages in Support of Big Rock Point Phased License Termination

Attachment 1 contains a matrix of Final Status Survey (FSS) record numbers, survey area descriptions, and review status. This attachment is a revision to attachment of our letter dated October 30, 2006. It contains a list of the final status survey release records expected to be submitted in support of our FSS report. This FSS report is expected to be submitted on or around the fifteenth of November.

Also attached, are the following errata pages and instructions for previously submitted survey release records:

1. East Central Protected Area (Attachment 2) –replace page 31 of 36 of Attachment 3 of our October 27, 2006 submittal with the page in this letter's Attachment 2.
2. North Protected Area (Attachment 3) – replace page 33 of 38 of Attachment 3 of our October 10, 2006 submittal with the page in this letter's Attachment 3.

These errata pages are being provided to correct a typographical error in the original submittals. They are being provided to facilitate U.S. Nuclear Regulatory Commission review, as discussed in our April 12, 2006 meeting.

The intended partial site release supports the process of license termination by demonstrating that an additional portion of the remaining site lands can be released from the Site license. This letter, along with completed and future on-site inspections and

Nmss01

letters, provides documentation that demolition activities have been performed in accordance with the LTP.

Your timely review of FSS information and approval of our request to release the associated land is particularly important to the project and smooth transition to an Independent Spent Fuel Storage Installation (ISFSI)-only operation.

If you have any questions or comments on these reports, please contact Ken Pallagi, Radiation Protection and Environmental Services Manager at 231-547-8416.



Kurt M. Haas  
Site General Manager

#### ATTACHMENTS

cc: Administrator, Region III, USNRC (w/o Attachments)  
NRC Decommissioning Inspector, Big Rock Point (w/o Attachments)  
NRC NMSS Project Manager, James Shepherd (w/o Attachments)  
NRC NMSS FSS Reviewer, Bruce Watson  
Michigan Department of Environmental Quality, Thor Strong (w/o Attachments)

ATTACHMENT 1

CONSUMERS ENERGY  
BIG ROCK POINT

DOCKET NUMBERS 50-155 AND 72-043

TRANSMITTAL OF SURVEY PACKAGES IN SUPPORT OF BIG ROCK POINT PHASED  
LICENSE TERMINATION

MATRIX OF FSS SUPPORTING DOCUMENTATION

November 2, 2006

5 Pages

## MATRIX OF BIG ROCK POINT FINAL STATUS SURVEY REPORTS

SURVEY AREA <sup>1</sup>	RECORD <sup>2</sup> NUMBER	SURVEY AREA DESCRIPTION	PACKAGE SIGNOFF DATE	U.S. NRC REVIEW METHOD	PACKAGE REVIEW DATE	LETTER DATE
<b>CLASS 1 AREAS – FINAL STATUS SURVEY OF SURFACES</b>						
1	01C <sub>1</sub>	Class 1 Final Status Release Record, South West Protected Area	10/11/06	Letter		10/13/06
2	02C <sub>1</sub>	Class 1 Final Status Release Record, West Central Protected Area	10/11/06	Letter		10/13/06
3	03C <sub>1</sub>	Class 1 Final Status Release Record, North West Protected Area	10/16/06	Letter		10/24/06
4	04C <sub>1</sub>	Class 1 Final Status Release Record, North Central Protected Area	10/04/06	Letter		10/10/06
5	05C <sub>1</sub>	Class 1 Final Status Release Record, Central Protected Area	10/16/06	Letter		10/24/06
6	06C <sub>1</sub>	Class 1 Final Status Release Record, South Central Protected Area	10/23/06	Letter		10/24/06
7	07C <sub>1</sub>	Class 1 Final Status Release Record, South East Protected Area	10/24/06	Letter		10/27/06
8	08C <sub>1</sub>	Class 1 Final Status Release Record, East Central Protected Area	10/25/06	Letter		10/27/06 Errata 11/2/06
9	09C <sub>1</sub>	Class 1 Final Status Release Record, North East Protected Area	10/04/06	Letter		10/13/06
10	10C <sub>1</sub>	Class 1 Final Status Release Record, East Protected Area	10/25/06	Letter		10/27/06
11 <sup>3</sup>	North11C <sub>1</sub>	Class 1 Final Status Release Record, North Radwaste Staging Area	10/25/06	Letter		10/27/06
11	South11C <sub>1</sub>	Class 1 Final Status Release Record, South Radwaste Staging Area	10/25/06	Letter		10/31/06
15	15(2R)C <sub>1</sub>	Class 1 Final Status Release Record, Woods Road Storage Area	05/23/06	On-Site Inspection and Letter	06/13-14/06	10/9/06
20	20C <sub>1</sub>	Class 1 Final Status Release Record, East Radwaste Staging Area	10/30/06	Letter		10/31/06
23	23C <sub>1</sub>	Class 1 Final Status Release Record, North Protected Area	10/05/06	Letter		10/10/06 Errata 11/2/06
24	24C <sub>1</sub>	Class 1 Final Status Release Record, South Protected Area				
Discharge Canal <sup>4</sup>	Canal C <sub>1</sub>	Class 1 Final Status Survey, Discharge Canal	01/27/05	On-Site Inspection and Letter	06/13-14/06	10/9/06
<b>CLASS 1 AREAS- EXCAVATED SOIL FINAL STATUS SURVEYS<sup>5</sup></b>						
2	02Cx <sub>1</sub>	Class 1 Final Status Survey, Excavated Soil from Retention Pond Construction	10/13/2004	On-Site Inspection and Letter	06/13-14/06	10/9/06
8	08Cx <sub>1</sub>	Class 1 Final Status Survey, Excavated Soil from Turbine Building Subfloor	05/16/05	On-Site Inspection and Letter	06/13-14/06	10/9/06
9	09Cx <sub>1</sub>	Class 1 Final Status Survey, Excavated Soil from Screenhouse Area	12/09/04	On-Site Inspection and Letter	06/13-14/06	10/9/06

<sup>1</sup> Survey Area Map – Big Rock Point License Termination Plan, Chapter 5, figure 5-3, Initial Land Area Survey Units

<sup>2</sup> Record Number nomenclature is defined in Procedure RM-76, Final Status Survey Design, step 6.2, Survey Unit Nomenclature

<sup>3</sup> Surface of survey unit 11 was divided into North and South areas due to intermediate use of land between the quarry survey and the final surface survey (served as solid Radwaste storage yard in interim.)

<sup>4</sup> Discharge Canal is North East of the Protected Area

<sup>5</sup> Soils removed from Class 1 Area excavations

## MATRIX OF BIG ROCK POINT FINAL STATUS SURVEY REPORTS

SURVEY AREA <sup>1</sup>	RECORD <sup>2</sup> NUMBER	SURVEY AREA DESCRIPTION	PACKAGE SIGNOFF DATE	U.S. NRC REVIEW METHOD	PACKAGE REVIEW DATE	LETTER DATE
9	09Cx <sub>2</sub> 1	Class I Final Status Survey, Excavated Soil from Screenhouse Area	12/08/04	On-Site Inspection and letter	06/13-14/06	10/9/06
9	09Cx <sub>3</sub> 1	Class I Final Status Survey, Excavated Soil from Screenhouse Area	12/09/04	On-Site Inspection and letter	06/13-14/06	10/9/06
9	09Cx <sub>4</sub> 1	Class I Final Status Survey, Excavated Soil from Screenhouse Area	12/09/04	On-Site Inspection and letter	06/13-14/06	10/9/06
9	09Cx <sub>5</sub> 1	Class I Final Status Survey, Excavated Soil from Screenhouse Area	12/14/04	On-Site Inspection and letter	06/13-14/06	10/9/06
9	09Cx <sub>6</sub> 1	Class I Final Status Survey, Excavated Soil from Screenhouse Area	01/19/05	On-Site Inspection and Letter	06/13-14/06	10/9/06
9	09Cx <sub>7</sub> 1	Class I Final Status Survey, Excavated Soil from Screenhouse Area	05/16/05	On-Site Inspection and Letter	06/13-14/06	10/9/06
11	11Cx <sub>1</sub> 1	Class I Final Status Survey, Excavated Soil from Radwaste Storage Vaults	10/13/04	On-Site Inspection and Letter	06/13-14/06	10/9/06
Slurry <sup>6</sup> Wall	Slurry Wall Cx <sub>1</sub> 1	Class I Final Status Survey, Excavated Soil from Slurry Wall Construction	12/08/04	On-Site Inspection and Letter	06/13-14/06	10/9/06
Slurry Wall	Slurry Wall Cx <sub>2</sub> 1	Class I Final Status Survey, Excavated Soil from Slurry Wall Construction	12/20/04	On-Site Inspection and Letter	06/13-14/06	10/9/06
Turbine Building <sup>7</sup>	TBCx <sub>1</sub> 1	Class I Supporting Survey– Soil Excavated from Turbine Building Demolition Area, Supporting Subsurface Structure and Component Removal	08/24/05	On-Site Inspection and Letter	06/13-14/06	10/9/06
Turbine Building	TBCx <sub>2</sub> 1	Class I Supporting Survey– Soil Excavated from Turbine Building Demolition Area, Supporting Subsurface Structure and Component Removal	10/13/05	On-Site Inspection and Letter	06/13-14/06	10/9/06
Turbine Building	TBCx <sub>3</sub> 1	Class I Supporting Survey– Soil Excavated from Turbine Building Demolition Area, Supporting Subsurface Structure and Component Removal	11/23/05	On-Site Inspection and Letter	06/13-14/06	10/9/06
Turbine Building	TBCx <sub>4</sub> 1	Class I Supporting Survey– Soil Excavated from Turbine Building Demolition Area, Supporting Subsurface Structure and Component Removal	11/23/05	On-Site Inspection and Letter	06/13-14/06	10/9/06
Turbine Building	TBCx <sub>5</sub> 1	Class I Supporting Survey– Soil Excavated from Turbine Building Demolition Area, Supporting Subsurface Structure and Component Removal	01/06/06	On-Site Inspection and Letter	06/13-14/06	10/9/06
Turbine Building	TBCx <sub>6</sub> 1	Class I Supporting Survey– Soil Excavated from Turbine Building Demolition Area, Supporting Subsurface Structure and Component Removal	07/03/06	On-Site Inspection and Letter	06/13-14/06	10/9/06

<sup>6</sup> Slurry Wall crossed several survey areas on the east, south, and west sides of the protected area.

<sup>7</sup> Turbine building excavation was beneath survey areas 5, 6, and 8

## MATRIX OF BIG ROCK POINT FINAL STATUS SURVEY REPORTS

SURVEY AREA <sup>1</sup>	RECORD <sup>2</sup> NUMBER	SURVEY AREA DESCRIPTION	PACKAGE SIGNOFF DATE	U.S. NRC REVIEW METHOD	PACKAGE REVIEW DATE	LETTER DATE
Turbine Building	TBCx <sub>7</sub> l	Class 1 Supporting Survey– Soil Excavated from Turbine Building Demolition Area, Supporting Subsurface Structure and Component Removal	07/05/06	On-Site Inspection and Letter	06/13-14/06	10/9/06
Turbine Building	TBCx <sub>8</sub> l	Class 1 Supporting Survey – Relocated Soil from Turbine Building/Containment Demolition	07/03/06	On-Site Inspection and Letter	06/13-14/06	10/9/06
Turbine Building	TBCx <sub>9</sub> l	Class 1 Supporting Survey – Relocated Soil from Turbine Building/Containment Demolition	07/03/06	On-Site Inspection and Letter	06/13-14/06	10/9/06
Turbine Building	TBCx <sub>10</sub> l	Class 1 Relocated Soil Supporting Survey Release Record – Relocated Soils from Turbine Building/Containment Demolition	08/03/06	Letter		8/24/06
Turbine Building	TBCx <sub>11</sub> l	Class 1 Relocated Soil Supporting Survey Release Record – Relocated Soils from Turbine Building/Containment Demolition	08/14/06	Letter		8/24/06
Turbine Building	TBCx <sub>12</sub> l	Class 1 Relocated Soil Supporting Survey Release Record – Relocated Soils from Turbine Building/Containment Demolition	9/6/06	Letter		9/20/06
Turbine Building	TBCx <sub>13</sub> l	Class 1 Relocated Soil Supporting Survey Release Record – Relocated Soils from Turbine Building/Containment Demolition	9/6/06	Letter		9/20/06
Turbine Building	TBCx <sub>14</sub> l	Class 1 Relocated Soil Supporting Survey Release Record – Relocated Soils from Turbine Building/Containment Demolition	09/15/06	Letter		10/10/06
Turbine Building	TBCx <sub>14</sub> l	Class 1 Relocated Soil Supporting Survey Release Record – Relocated Soils from Turbine Building/Containment Demolition	10/23/06	Letter		10/24/06
<b>CLASS 1 AREAS – FINAL STATUS SURVEY – SUBSURFACE (QUARRY)</b>						
9	09Cq <sub>1</sub> l	Class 1 Final Status Survey, Screenhouse Area Excavation	12/20/04	On-Site Inspection and Letter	06/13-14/06	10/9/06
11	11Cq <sub>1</sub> l	Class 1 Final Status Survey, Solid Radwaste Storage Area Excavation	10/13/04	On-Site Inspection and Letter	06/13-14/06	10/9/06
Containment <sup>8</sup>	CSCq <sub>1</sub> l	Excavated Surface Supporting Survey Release Record – Base Elevation Survey of Containment Structure Excavation	08/03/06	Letter		8/24/06
Circulating Water Piping	CWCq <sub>1</sub> l	Excavated Surface Supporting Survey Release Record – Base Elevation Survey of Circulating Water Piping Excavation	08/07/06	Letter		8/24/06
Turbine Building	East TBCq <sub>1</sub> l	Class 1 Final Status Release Record, Turbine Building East Excavation Surface	03/30/06	Letter		4/03/06
Turbine Building	West TBCq <sub>1</sub> l	Excavated Surface Supporting Survey Release Record – Base Elevation Survey of the Turbine Building Excavation Following Removal of West-Side Foundations and Subsurface Components	08/14/06	Letter		8/24/06

<sup>8</sup> Containment quarry was beneath survey areas 4, 5, 8, and 9. Circulation Water quarry was beneath survey areas 7, 8, 9, and 10. Turbine Building quarry was beneath survey areas 5, 6, and 8

## MATRIX OF BIG ROCK POINT FINAL STATUS SURVEY REPORTS

SURVEY AREA <sup>1</sup>	RECORD <sup>2</sup> NUMBER	SURVEY AREA DESCRIPTION	PACKAGE SIGNOFF DATE	U.S. NRC REVIEW METHOD	PACKAGE REVIEW DATE	LETTER DATE
<b>CLASS 2 AREAS – FINAL STATUS SURVEY OF SURFACE</b>						
12	12C <sub>1,2</sub>	Class 2 Final Status Survey Release Record, Shoreline North of the Protected Area	08/14/06	Letter		8/24/06
15	15(1)C <sub>1,2</sub>	Class 2 Final Status Survey Release Record, Eastern Section Woods Road Area	10/26/06	Letter		10/30/06
15	15(2)C <sub>1,2</sub>	Class 2 Final Status Survey Release Record, Central Section Woods Road Area	08/09/06	Letter		8/24/06
16	16C <sub>1,2</sub>	Class 2 Final Status Survey Release Record, Shoreline East of Breakwall	08/14/06	Letter		8/24/06
19	North19C <sub>1,2</sub>	Class 2 Final Status Survey Release Record, North West Transport Route	10/27/06	Letter		10/30/06
19	South19C <sub>1,2</sub>	Class 2 Final Status Survey Release Record, South West Transport Route				
21	North21C <sub>1,2</sub>	Class 2 Final Status Survey Release Record, North East Transport Route				
21	South21C <sub>1,2</sub>	Class 2 Final Status Survey Release Record, South East Transport Route				
22	East22C <sub>1,2</sub>	Class 2 Final Status Survey Release Record, East Powerline Corridor				
22	West22C <sub>1,2</sub>	Class 2 Final Status Survey Release Record, West Powerline Corridor				
26	26C <sub>1,2</sub>	Class 2 Final Status Release Record, Drainage Ditch, South and West of the Industrial Area				
Septic Drain Field <sup>9</sup>	DFC <sub>1,2</sub>	Class 2 Final Status Survey Release Record, Septic Field Drain	08/14/06	Letter		8/24/06
<b>CLASS 2 AREAS – EXCAVATED SOIL FINAL STATUS SURVEYS</b>						
12	12Cx <sub>1,2</sub>	Class 2 Final Status Survey Record, Excavated Soil from Building Construction	12/07/04	On-Site Inspection and Letter	06/13-14/06	10/9/06
19	19Cx <sub>1,2</sub>	Class 2 Final Status Survey Record, Excavated Soil from Storm Drain Modification	12/02/04	On-Site Inspection and Letter	06/13-14/06	10/9/06

<sup>9</sup> Septic Field Drain survey area is contained within survey area 15(1)

## MATRIX OF BIG ROCK POINT FINAL STATUS SURVEY REPORTS

SURVEY AREA <sup>1</sup>	RECORD <sup>2</sup> NUMBER	SURVEY AREA DESCRIPTION	PACKAGE SIGNOFF DATE	U.S. NRC REVIEW METHOD	PACKAGE REVIEW DATE	LETTER DATE
<b>CLASS 3 AREAS – FINAL STATUS SURVEY OF SURFACE</b>						
13	13C <sub>1</sub> 3	Class 3 Final Status Survey Release Record, Shoreline East of the Industrial Site	08/14/06	Letter		8/24/06
14	14C <sub>1</sub> 3	Class 3 Final Status Survey Release Record, Shoreline West of the Industrial Site	08/17/06	Letter		8/24/06
17	17C <sub>1</sub> 3	Class 3 Final Status Survey Release Record, East Woods Boundary	10/26/06	Letter		10/30/06
18	18C <sub>1</sub> 3	Class 3 Final Status Survey Release Record, Wooded Area West of Industrial Site	07/03/06 <sup>10</sup>	On-Site Inspection and Letter	06/13-14/06	10/9/06
25	25C <sub>1</sub> 3	Class 3 Final Status Survey Release Record, South Woods Boundary				
59	59C <sub>1</sub> 3	Class 3 Final Status Survey Release Record, Soil Storage Area South of US 31	07/03/06	On-Site Inspection and Letter	06/13-14/06	10/9/06

<sup>10</sup> Revisions to packages signed after NRC review were administrative only – no changes to technical content.

ATTACHMENT 2

CONSUMERS ENERGY  
BIG ROCK POINT

DOCKET NUMBERS 50-155 AND 72-043

TRANSMITTAL OF ERRATA PAGE FOR SURVEY PACKAGES IN SUPPORT OF BIG  
ROCK POINT PHASED LICENSE TERMINATION

(Replaces page 31 of 36 of Attachment 3 of BRP 10/27/2006 Submittal)

CLASS 1 FINAL STATUS SURVEY RELEASE RECORD, 08C<sub>1</sub>,  
EAST CENTRAL PROTECTED AREA

November 2, 2006

1 Page

**RM-78-3, Attachment 1  
Statistical Quantities**

**Release Record 08C<sub>1</sub>  
East Central Protected Area**

Sample Number	Cs-137 (pCi/gm)	Co-60 (pCi/gm)	Weighted Sum (SOR)	**Weighted Sum <DCGLw?	DCGL-W. Sum	Sign
1	0.0388	-0.0123	-0.0006	yes	0.9994	+1
2	0.0405	0.0005	0.0036	yes	0.9964	+1
3	0.0280	0.0038	0.0035	yes	0.9965	+1
4	0.0363	-0.0008	0.0028	yes	0.9972	+1
5	0.0367	0.0048	0.0046	yes	0.9954	+1
6	0.0188	0.0166	0.0067	yes	0.9933	+1
7	0.0627	-0.0096	0.0023	yes	0.9977	+1
8	0.1167	-0.0314	0.0000	yes	1.0000	+1
9	0.0873	0.0315	0.0171	yes	0.9829	+1
10	0.0586	0.0249	0.0127	yes	0.9873	+1
11	0.0354	0.0384	0.0149	yes	0.9851	+1
12	0.0531	-0.0026	0.0036	yes	0.9964	+1
13	0.0659	0.0171	0.0109	yes	0.9891	+1
14	0.0506	0.0171	0.0096	yes	0.9904	+1
15	0.0466	0.0126	0.0078	yes	0.9922	+1
16	0.0756	0.0159	0.0113	yes	0.9887	+1
17	0.0492	-0.0028	0.0033	yes	0.9967	+1
18	0.0341	0.0120	0.0066	yes	0.9934	+1
19	0.0470	0.0073	0.0062	yes	0.9938	+1
20	0.0384	0.0196	0.0093	yes	0.9907	+1

Std. Dev	0.0225	0.0161	0.0048
Mean	0.0510	0.0081	0.0068
Median	0.0468	0.0097	0.0064

Number of Positive Differences (S+): n/a

Critical Value, *k*, Table I.3 of *Marssim*: n/a

S+ > than *k*?: n/a

Survey Unit Pass or Fail: **\*\*Pass**

*\*Note: Forced-Count values are used for samples with activity levels below the MDA.*

*\*\*Note: If all measurement data are less than the DCGL<sub>w</sub>, then the Sign Test is not required.*

ATTACHMENT 3

CONSUMERS ENERGY  
BIG ROCK POINT

DOCKET NUMBERS 50-155 AND 72-043

TRANSMITTAL OF ERRATA PAGE FOR SURVEY PACKAGES IN SUPPORT OF BIG  
ROCK POINT PHASED LICENSE TERMINATION

(Replaces page 33 of 38 of Attachment 3 of BRP 10/10/2006 Submittal)

CLASS 1 FINAL STATUS SURVEY RELEASE RECORD, 23C<sub>1</sub>,  
EAST RADWASTE STAGING AREA

November 2, 2006

1 Page

**RM-78-3, Attachment 1  
Statistical Quantities**

**Release Record 23C<sub>1</sub>  
North Protected Area**

Sample Number	Cs-137 (pCi/gm)	Co-60 (pCi/gm)	Weighted Sum (SOR)	**Weighted Sum <DCGL <sub>w</sub> ?	DCGL-W. Sum	Sign
1	0.2274	0.0136	0.0233	yes	0.9767	+1
2	0.1329	0.0124	0.0150	yes	0.9850	+1
3	0.0629	0.0050	0.0068	yes	0.9932	+1
4	0.1336	0.0697	0.0329	yes	0.9671	+1
5	0.0366	-0.0040	0.0018	yes	0.9982	+1
6	0.6305	0.0092	0.0557	yes	0.9443	+1
7	0.2239	0.0214	0.0254	yes	0.9746	+1
8	0.2475	0.0153	0.0255	yes	0.9745	+1
9	0.1987	-0.0034	0.0156	yes	0.9844	+1
10	0.0896	0.0069	0.0097	yes	0.9903	+1
11	0.0269	0.0027	0.0031	yes	0.9969	+1
12	0.0229	-0.0051	0.0003	yes	0.9997	+1
13	0.0210	-0.0009	0.0015	yes	0.9985	+1
14	0.6364	-0.0021	0.0527	yes	0.9473	+1
15	0.8962	0.0473	0.0899	yes	0.9101	+1
16	0.9858	0.0371	0.0942	yes	0.9058	+1
17	0.4060	0.0232	0.0413	yes	0.9587	+1
18	1.1350	0.0011	0.0955	yes	0.9045	+1
19	0.4980	0.0156	0.0466	yes	0.9534	+1
20	0.2467	0.0234	0.0280	yes	0.9720	+1
21	0.0198	0.0011	0.0020	yes	0.9980	+1
22	0.2370	0.0718	0.0422	yes	0.9578	+1
23	0.2071	0.0518	0.0335	yes	0.9665	+1

Std. Dev	0.3276	0.0228	0.0295
Mean	0.3184	0.0180	0.0323
Median	0.2239	0.0124	0.0255

Number of Positive Differences (S+): n/a

Critical Value, k, Table I.3 of *Marssim*: n/a

S+ > than k?: n/a

Survey Unit Pass or Fail: **\*\*Pass**

\*Note: Forced-Count values are used for samples with activity levels below the MDA.

\*\*Note: If all measurement data are less than the DCGL<sub>w</sub>, then the Sign Test is not required.