Ms. Angela M. Cooney, Contracting Officer  
U. S. Department of Energy  
250 East 5th St., Suite 500  
Cincinnati, OH 45202


Dear Ms. Cooney:

This letter is submitted for Contracting Officer Representative’s approval to inform you that the SPDES DMR for the reporting period September 1 through September 30, 2018 has been submitted electronically. A copy of this submittal is attached as well as a copy of the email confirmation from the New York State Department of Environmental Conservation (NYSDEC).

If you have any questions, please contact William Kean at extension 4865 or Janice Williams at extension 2913.

Sincerely,

Scott A. Anderson  
President & General Manager

Attachments:  
A) SPDES DMR for September 1 – 30, 2018  
B) Email Confirmation from NYSDEC

cc:  
T. Taggart, DOE-EMCBC  
B. C. Bower, DOE-WVDP  
S. A. Anderson, CHBWV  
C. Chun, CHBWV  
T. D. Dogal, CHBWV  
L. K. Hollfelder, CHBWV  
W. N. Kean, CHBWV  
L. J. Ortega, CHBWV  
J. T. Pillittere, CHBWV (Public Reading Room)  
D. H. Pritchard, CHBWV  
J. E. Wangelin, CHBWV  
J. D. Williams, CHBWV  
Letter Log (B. Jeffery), CHBWV  
CHBWV OITS #1730443
**DMR Copy of Record**

**Permit**
- **Permit #:** NY0000973
- **Permittee:** U.S. DEPT OF ENERGY
- **Facility:** WEST VALLEY DEMONSTRATION PROJ
- **Permittee Address:** 1000 INDEPENDENCE AVE SW
- **Facility Location:** WASHINGTON, DC 20585
- **Permitted Feature:** 001 External Outfall
- **Discharge:** 001-M OUTFALL 001 MONTHLY PROC WW, GW, STORM

**Report Dates & Status**
- **Monitoring Period:** From 09/01/18 to 09/30/18
- **DMR Due Date:** 10/28/18
- **Status:** NetDMR Validated

**Considerations for Form Completion**

**Principal Executive Officer**
- **First Name:** Bryan C.
- **Last Name:** Bower
- **Title:** Director, USDOE-WVDP
- **Telephone:** 716-942-4368

**No Data Indicator (NODI)**

**Form NODI:** --

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</tbody>
</table>

**Permittee Address:**
- **External Outfall:** 01045
- **WEST VALLEY, NY 14171-9799

**Permittee:**
- **Principal Executive Officer:** Director, USDOE-WVDP
- **Telephone:** 716-942-4368

**Considerations for Form Completion**
- **First Name:** Bryan C.
- **Last Name:** Bower
- **Title:** Director, USDOE-WVDP
- **Telephone:** 716-942-4368
<table>
<thead>
<tr>
<th>Parameter</th>
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<td>&lt; 0.1</td>
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<td>&lt; 0.01</td>
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<td>02/BA - Twice Per Batch</td>
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<td>02/BA - Twice Per Batch</td>
<td>COMP24</td>
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</table>

**Submission Note**

If a parameter row does not contain any values for the Sample nor Effluent Trading, then none of the following fields will be submitted for that row: Units, Number of Excursions, Frequency of Analysis, and Sample Type.

**Edit Check Errors**

No errors.

**Comments**

As required in Title 6 of the New York State Codes, Rules, and Regulations 6NYCRR, Part 750-2(a)(3), the New York Environmental Laboratory Accreditation Program (NYELAP) identification numbers for Laboratories performing analysis for the WVDP DMRs are as follows: 1) TestAmerica: NY Lab No. 10026; and 2) General Engineering Laboratory: NY Lab No. 11501. Also, NYCRR Part 750-2(a)(3) requires reporting of Method Detection Limits (MDLs) where monitoring is not performed under ELAP. To that end, the MDL for Total Residual Chlorine analysis, performed by the CHBWV wastewater treatment plant operators is 0.01 mg/L. Please note that laboratory analyzed the second composite sample for Total Suspended Solids (TSS) collected on September 18, 2018 outside of the 7 day holding time and therefore this result was flagged "R" unreliable during the data validation process. The first composite sample was reported correctly at <4.0 mg/L. In addition, a predischarge sample was collected on August 30, 2018 to characterize the lagoon for discharge with a reported TSS result of <4.0 mg/L.

**Attachments**

No attachments.

**Report Last Saved By**

U.S. DEPT OF ENERGY

User: william.kean@chbwv.com
Name: William Kean
E-Mail: william.kean@chbwv.com
Date/Time: 2018-10-15 10:59

**Report Last Signed By**

User: janice.williams@chbwv.com
Name: Janice Williams
E-Mail: janice.williams@chbwv.com
Date/Time: 2018-10-15 14:28
**DMR Copy of Record**

**Permit**
- Permit #: NY0000973
- Permittee: U.S. DEPT OF ENERGY
- Facility: WEST VALLEY DEMONSTRATION PROJ
- Permittee Address: 1000 INDEPENDENCE AVE SW WASHINGTON, DC 20585
- Facility Location: 10282 ROCK SPRINGS ROAD WEST VALLEY, NY 14171-9799
- Permit #: NY0000973
- Permittee: U.S. DEPT OF ENERGY
- Facility: WEST VALLEY DEMONSTRATION PROJ
- Major: Yes
- Permittee Address: 1000 INDEPENDENCE AVE SW WASHINGTON, DC 20585
- Facility Location: 10282 ROCK SPRINGS ROAD WEST VALLEY, NY 14171-9799
- Permitted Feature: 007 External Outfall
- Discharge: 007-M SANITARY, NC COOLING WATER, UTILITY WASTEWATER, STORMWATER

**Report Dates & Status**
- Monitoring Period: From 09/01/18 to 09/30/18
- DMR Due Date: 10/28/18
- Status: NetDMR Validated

**Considerations for Form Completion**
- Principal Executive Officer
  - First Name: Bryan
  - Last Name: Bower
  - Title: Director, USDOE-WVDP
  - Telephone: 716-942-4368
- Form NODI: --

**Parameter Table**

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<th>Quality or Concentration</th>
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<td>02/30- Twice Per Month 24 - COMP24</td>
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<td>&lt;= 2.1 DAILY MX 03 - MGD</td>
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<td>01/30- Monthly</td>
<td>GR - GRAB</td>
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</tbody>
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**Submission Note**
If a parameter row does not contain any values for the Sample nor Effluent Trading, then none of the following fields will be submitted for that row: Units, Number of Excursions, Frequency of Analysis, and Sample Type.
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<td>U.S. DEPT OF ENERGY</td>
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<tr>
<td>User:</td>
<td><a href="mailto:william.kean@chbwv.com">william.kean@chbwv.com</a></td>
</tr>
<tr>
<td>Name:</td>
<td>William Kean</td>
</tr>
<tr>
<td>E-Mail:</td>
<td><a href="mailto:william.kean@chbwv.com">william.kean@chbwv.com</a></td>
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<tr>
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<td>2018-10-11 08:00 (Time Zone: -04:00)</td>
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<td></td>
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<tr>
<td>User:</td>
<td><a href="mailto:janice.williams@chbwv.com">janice.williams@chbwv.com</a></td>
</tr>
<tr>
<td>Name:</td>
<td>Janice Williams</td>
</tr>
<tr>
<td>E-Mail:</td>
<td><a href="mailto:janice.williams@chbwv.com">janice.williams@chbwv.com</a></td>
</tr>
<tr>
<td>Date/Time:</td>
<td>2018-10-15 14:28 (Time Zone: -04:00)</td>
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## DMR Copy of Record

**Permit**
- **Permit #:** NY0000973
- **Permittee:** U.S. DEPT OF ENERGY
- **Facility:** WEST VALLEY DEMONSTRATION PROJ
- **Major:** Yes
- **Permit Address:** 1000 INDEPENDENCE AVE SW
- **Facility Location:** 10282 ROCK SPRINGS ROAD
- **Permitted Feature:** 01B Internal Outfall
- **Discharge:** 01B-M MERCURY PRETREATMENT
- **Permittee Address:** 1000 INDEPENDENCE AVE SW
- **Facility Location:** 10282 ROCK SPRINGS ROAD

**Report Dates & Status**
- **Monitoring Period:** From 09/01/18 to 09/30/18
- **DMR Due Date:** 10/28/18
- **Status:** NetDMR Validated

**Considerations for Form Completion**

### Principal Executive Officer
- **First Name:** Bryan C.
- **Title:** Director, USDOE-WVDP
- **Telephone:** 716-942-4368
- **Last Name:** Bower

### No Data Indicator (NODI)

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<th>Name</th>
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<th>Season #</th>
<th>Param. NODI</th>
<th>Quantity or Loading</th>
<th>Quality or Concentration</th>
<th># of Ex</th>
<th>Frequency of Analysis</th>
<th>Sample Type</th>
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<tr>
<td>00056</td>
<td>Flow rate</td>
<td>1 - Effluent Gross</td>
<td>0</td>
<td>Permit Req</td>
<td>Req Mon MO AVG</td>
<td>Req Mon DAILY MX 07 - gpt</td>
<td>Value NODI</td>
<td>C - No Discharge</td>
<td>C - No Discharge</td>
<td>21/07 - Weekly</td>
</tr>
<tr>
<td>71900</td>
<td>Mercury, total [as Hg]</td>
<td>1 - Effluent Gross</td>
<td>0</td>
<td>Permit Req</td>
<td>Req Mon MO AVG</td>
<td>Req Mon MO AVG 07</td>
<td>Value NODI</td>
<td>C - No Discharge</td>
<td>C - No Discharge</td>
<td>30/BA - Twice Per Batch</td>
</tr>
</tbody>
</table>

### Submission Note

If a parameter row does not contain any values for the Sample nor Effluent Trading, then none of the following fields will be submitted for that row: Units, Number of Excursions, Frequency of Analysis, and Sample Type.

### Edit Check Errors

No errors.

### Comments

No comments.

### Attachments

No attachments.

### Report Last Saved By

**U.S. DEPT OF ENERGY**
- **User:** william.kean@chbwv.com
- **Name:** William Kean
- **E-Mail:** william.kean@chbwv.com
- **Date/Time:** 2018-10-11 08:00 (Time Zone: -04:00)

### Report Last Signed By

**U.S. DEPT OF ENERGY**
- **User:** janice.williams@chbwv.com
- **Name:** Janice Williams
- **E-Mail:** janice.williams@chbwv.com
- **Date/Time:** 2018-10-15 14:28 (Time Zone: -04:00)
DMR Copy of Record

Permit
Permit #: NY0000973
Permittee: U.S. DEPT OF ENERGY
Facility: WEST VALLEY DEMONSTRATION PROJ
Permittee Address: 1000 INDEPENDENCE AVE SW
WASHINGTON, DC 20585
Facility Location: 10282 ROCK SPRINGS ROAD
WEST VALLEY, NY 14171-9799
Permitted Feature: 116 Internal Outfall
Discharge: 116-M PSEUDO MON. POINT @FRANKS CRK

Report Dates & Status
Monitoring Period: From 09/01/18 to 09/30/18
DMR Due Date: 10/28/18
Status: NetDMR Validated

Considerations for Form Completion
IF PSUEDO MONITORING POINT REPORT IS NOT REQUIRED DURING THE MONITORING PERIOD, EITHER CHECK THENO DISCHARGE BOX OR ENTER 'NODI A' IN PLACE OF A MEASUREMENT TO INDICATE A GENERAL PERMIT EXEMPTION.

Principal Executive Officer
First Name: Bryan C.
Title: Director, USDOE-WVDP
Telephone: 716-942-4368
Last Name: Bower

No Data Indicator (NODI)
Form NODI:

Parameter | Monitoring Location | Season # | Param. NODI | Quantity or Loading | Quality or Concentration | # of Ex. | Frequency of Analysis | Sample Type
--- | --- | --- | --- | --- | --- | --- | --- | ---
70295 Solids, total dissolved Z - Instream Monitoring | -- | -- | -- | Sample | Value | Value | 0 | 02/DS - Twice Per Discharge | CA - CALCUT
70295 Solids, total dissolved Z - Instream Monitoring | -- | -- | -- | Permit Request | Req Mon MO AVG | 500 DAILY MX | 19 - mg/L | 02/DS - Twice Per Discharge | CA - CALCUT

Submission Note
If a parameter row does not contain any values for the Sample nor Effluent Trading, then none of the following fields will be submitted for that row: Units, Number of Excursions, Frequency of Analysis, and Sample Type.

Edit Check Errors
No errors.

Comments
As required in Title 6 of the New York State Codes, Rules, and Regulations (NYCRR, Part 750-2(e)(3), the New York Environmental Laboratory Accreditation Program (NYELAP) identification numbers for Laboratories performing analysis for the WVDP DMR's are as follows: 1) TestAmerica: NY Lab No. 10026; and 2) General Engineering Laboratory: NY Lab No. 11501. Also, NYCRR Part 750-2(e)(3) requires reporting of Method Detection Limits (MDLs) where monitoring is not performed under ELAP. To that end, the MDL for Total Residual Chlorine analysis, performed by the CHBWV wastewater treatment plant operators is 0.01 mg/L.

Attachments

Report Last Saved By

U.S. DEPT OF ENERGY
User: william.kaan@chbwv.com
Name: William Kean
E-Mail: william.kaan@chbwv.com
Date/Time: 2018-10-15 10:55 (Time Zone: -04:00)

Report Last Signed By

User: janice.williams@chbwv.com
Name: Janice Williams
E-Mail: janice.williams@chbwv.com
Date/Time: 2018-10-15 14:28 (Time Zone: -04:00)
DMR Copy of Record

Permit
Permit #: NY0000973
Permittee: U.S. DEPT OF ENERGY
Facility: WEST VALLEY DEMONSTRATION PROJ
Permittee Address: 1000 INDEPENDENCE AVE SW
WASHINGTON, DC 20585
Facility Location: 10282 ROCK SPRINGS ROAD
WEST VALLEY, NY 14171-9799
Permitted Feature: SUM Internal Outfall
Discharge: SUM-N SUM OF OUTFALLS 1 & 7

Report Dates & Status
Monitoring Period: From 09/01/18 to 09/30/18
DMR Due Date: 10/28/18
Status: NetDMR Validated

Considerations for Form Completion
Principal Executive Officer
First Name: Bryan C.
Title: Director, USDOE-WVDP
Telephone: 716-942-4368
Last Name: Bower
No Data Indicator (NODI)
Form NODI: --
Parameter | Monitoring Location | Season # | Param. NODI | Quantity or Loading | Quality or Concentration | # of Ex. | Frequency of Analysis | Sample Type
--- | --- | --- | --- | --- | --- | --- | --- | ---
01045 Iron, total [as Fe] | -- | -- | 2 - Effluent Net | = | = | | Units | Qualifier 1 | Value 1 | Qualifier 2 | Value 2 | Qualifier 3 | Value 3
01/30 - Monthly | CA - CALCTD | Permit Req. | Req Mon MO AVG < | 1 DAILY MX | 19 - mg/L | 01/30 - Monthly | CA - CALCTD

Submission Note
If a parameter row does not contain any values for the Sample nor Effluent Trading, then none of the following fields will be submitted for that row: Units, Number of Excursions, Frequency of Analysis, and Sample Type.

Edit Check Errors
No errors.

Comments
As required in Title 6 of the New York State Codes, Rules, and Regulations 6NYCRR, Part 750-2(a)(3), the New York Environmental Laboratory Accreditation Program (NYELAP) identification numbers for Laboratories performing analysis for the WVDP DMR's are as follows: 1) TestAmerica: NY Lab No. 10026; and 2) General Engineering Laboratory: NY Lab No. 11501. Also, NYCRR Part 750-2(a)(3) requires reporting of Method Detection Limits (MDLs) where monitoring is not performed under ELAP. To that end, the MDL for Total Residual Chlorine analysis, performed by the CHBWV wastewater treatment plant operators is 0.01 mg/L.

Attachments
Name | Type | Size
--- | --- | ---
WVDP_September_2018_Net_Iron_Calc.pdf | pdf | 30812

Report Last Saved By
U.S. DEPT OF ENERGY
User: william.kean@chbwv.com
Name: William Kean
E-Mail: william.kean@chbwv.com
Date/Time: 2018-10-15 10:56 (Time Zone: -04:00)

Report Last Signed By
User: janice.williams@chbwv.com
Name: Janice Williams
E-Mail: janice.williams@chbwv.com
Date/Time: 2018-10-15 14:28 (Time Zone: -04:00)
OUTFALL 001

\[ M1 = \frac{(X1 + X2) V1}{2} = 2794399.50 \text{ mg/month} \]

\[ X1 = 0.344 \text{ mg/L} \]
\[ X2 = 0.369 \text{ mg/L} \]
\[ V1 = 7838427.78 \text{ L/month} \]

OUTFALL 007

\[ M7 = \frac{(X1 + X2) V7}{2} = 0.00 \text{ mg/month} \]

\[ X1 = 0.00 \text{ mg/L} \]
\[ X2 = 0.00 \text{ mg/L} \]
\[ V7 = 0.00 \text{ L/month} \]

Note: There was no discharge from outfall 007 during this monitoring period.

RAW WATER

\[ \text{MRW} = \frac{(X1 + X2 + X3 + X4) VRW}{4} = 0.00 \text{ mg/month} \]

\[ X1 = 0.00 \text{ mg/L} \]
\[ X2 = 0.00 \text{ mg/L} \]
\[ X3 = 0.00 \text{ mg/L} \]
\[ X4 = 0.00 \text{ mg/L} \]
\[ VRW = 0.00 \text{ L/month} \]

Note: Raw water from the reservoir system is no longer used for process water since the site installed two groundwater wells. This eliminated the need to collect raw water samples on a weekly basis and altered the iron discharge concentration equation as the mass of iron entering the system is no longer necessary.

\[ \text{IRON DISCHARGE CONCENTRATION} = \frac{M1 + M7 - \text{MRW}}{V1 + V7} = 0.36 \text{ mg/L} \]
ATTACHMENT (Cont'd)

SPDES DISCHARGE MONITORING REPORT – SEPTEMBER 1 THROUGH SEPTEMBER 30, 2018
TOTAL DISSOLVED SOLIDS (TDS) CONCENTRATION CALCULATION – MONITORING POINT 116
WEST VALLEY DEMONSTRATION PROJECT, SPDES PERMIT No. NY-0000973

Date: September 13, 2018

\[
C_4 = \frac{(Q_1)(C_1) + (Q_2)(C_2) + (Q_3)(C_3)}{Q_4}
\]
\[
= \frac{(0.265 \text{ MGD})(678 \text{ mg/L}) + (0.364 \text{ MGD})(195 \text{ mg/L}) + (0.274 \text{ MGD})(105 \text{ mg/L})}{0.902 \text{ MGD}}
\]
\[
= 310 \text{ mg/L}
\]

Date: September 18, 2018

\[
C_4 = \frac{(Q_1)(C_1) + (Q_2)(C_2) + (Q_3)(C_3)}{Q_4}
\]
\[
= \frac{(0.265 \text{ MGD})(680 \text{ mg/L}) + (0.042 \text{ MGD})(179 \text{ mg/L}) + (0.274 \text{ MGD})(126 \text{ mg/L})}{0.580 \text{ MGD}}
\]
\[
= 388 \text{ mg/L}
\]

Q_1 = Flow at Outfall 001, million gallons per day (MGD).
C_1 = Total Dissolved Solids (TDS) concentration at Outfall 001, mg/L.
Q_2 = Flow in Franks Creek, MGD (without Outfall 001), measured at WNSP006 just prior to, and shortly after the discharge event.
C_2 = TDS concentration in Franks Creek measured at WNSP006 just prior to, and shortly after the discharge event.
Q_3 = Flow of augmentation water, MGD, if required.
C_3 = TDS concentration in augmentation water, MGD.
Q_4 = Q_1 + Q_2 + Q_3, MGD (Flow in Franks Creek, including Outfall 001).
C_4 <= 500 \text{ mg/L} (calculated TDS concentration at 116 in Franks Creek, which includes Outfall 001).
Attachment C
Email Confirmation from NYSDEC
The following signed 5 DMR(s) were submitted to EPA and were successfully processed:

CDX Transaction ID: _fd268c64-91cf-415b-9f84-a9085ef208b2
User ID: janice.williams@chbwv.com
Timestamp: 10/15/2018 14:28:38

Permitted Facility Name: WEST VALLEY DEMONSTRATION PROJ Permit ID: NY0000973 Permitted Feature: 001 Discharge: M - OUTFALL 001 MONTHLY PROC WW, GW, STORM Monitoring Period End Date: 09/30/18

Permitted Facility Name: WEST VALLEY DEMONSTRATION PROJ Permit ID: NY0000973 Permitted Feature: 007 Discharge: M - SANITARY, NC COOLING WATER, UTILITY WASTEWATER, STORMWATER Monitoring Period End Date: 09/30/18

Permitted Facility Name: WEST VALLEY DEMONSTRATION PROJ Permit ID: NY0000973 Permitted Feature: 01B Discharge: M - MERCURY PRETREATMENT Monitoring Period End Date: 09/30/18

Permitted Facility Name: WEST VALLEY DEMONSTRATION PROJ Permit ID: NY0000973 Permitted Feature: 116 Discharge: M - PSEUDO MON. POINT @FRANKS CRK Monitoring Period End Date: 09/30/18

Permitted Facility Name: WEST VALLEY DEMONSTRATION PROJ Permit ID: NY0000973 Permitted Feature: SUM Discharge: N - SUM OF OUTFALLS 1 & 7 Monitoring Period End Date: 09/30/18

Thank you.

This is a submission from the LIVE (Production) site.
**Subject:** Contract No. DE-EM0001529, Section J-3, Item 127, State Pollutant Discharge Monitoring System (SPDES) Discharge Monitoring Reports for May 1, 2018 – May 31, 2018

---

**Does this Correspondence Respond to any DOE or Regulator Correspondence?**

[X] No  
[ ] Yes - If yes, then identify the following: Correspondence Code:  
OITS Number:  

**Does this correspondence contain Official Use Only (OUO) information?**

[i.e., information is certain unclassified information that may be exempt from public release under the Freedom of Information Act (FOIA), (Exemptions 3-9) and has the potential to damage governmental, commercial, or private interests if disseminated to persons who do not need to know the information to perform their jobs or other DOE authorized activities; refer to WVDP-402 for additional guidance on this determination.]

[X] No  
[ ] Yes - If yes, ensure the document(s) is properly stamped and marked as OUO per requirements of WVDP-402. If Administratively Confidential or Proprietary, documentation must also be properly marked as such per requirements of WVDP-402.

**Does this correspondence contain ECI (OUO, FOIA Exemption 3)?**

[i.e., technical information that would be restricted by statute; refer to WVDP-402 for guidance on this determination.]

[X] No  
[ ] Yes - If yes, ensure the document(s) is properly stamped and marked as ECI and OUO per requirements of WVDP-402 and Export Technology Control Officer (ETCO) or trained alternate signature & date are obtained on the document(s).

OUO Reviewer/ECI Screener or ECI Document Reviewer: K. J. Mansfield

---

**Funding Commitment**

Does this correspondence commit funds?

[X] No  
[ ] Yes - If yes, then obtain Business Manager/CFO and Planning & Integration Manager review.

---

**REVIEWER APPROVALS** (only used for hard copy process)

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<th>Signature</th>
<th>Date</th>
<th>Approve w/Comments</th>
<th>Disapprove</th>
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<td>W. K.</td>
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<td>x</td>
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<tr>
<td>Michael Pendl (Peer)</td>
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<td>J. Buntas</td>
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Reviewer initial & date indicating satisfactory resolution of disapproved comments:  
(only used for hard copy process)