July 23, 2018

Mr. John Dinelli, Site Vice President
Entergy Operations, Inc.
17265 River Road
Killona, LA 70057-0751

SUBJECT: WATERFORD STEAM ELECTRIC STATION, UNIT 3 – NOTIFICATION OF
             CYBER SECURITY INSPECTION (NRC INSPECTION
             REPORT 05000382/2018410) AND REQUEST FOR INFORMATION

Dear Mr. Dinelli:

On November 5, 2018, the U.S. Nuclear Regulatory Commission (NRC) will begin an inspection in accordance with Inspection Procedure (IP) 71130.10P, "Cyber Security," Revision 0, at the Waterford Steam Electric Station, Unit 3 (Waterford 3). This inspection evaluates and verifies your ability to meet the full implementation requirements of the NRC's Cyber Security Rule, Title 10, *Code of Federal Regulations* (CFR), Part 73, Section 54, "Protection of Digital Computer and Communication Systems and Networks." The onsite portion of the inspection will take place during the weeks of November 5 and November 26, 2018.

Experience has shown that these inspections are extremely resource intensive, both for the NRC inspectors and the licensee staff. In order to minimize the inspection impact on the site and to ensure a productive inspection for both parties, we have enclosed a request for documents needed for the inspection. The document request has been divided into four groups. The first group specifies information necessary to assist the team in choosing the focus areas (i.e., "sample set") to be inspected in accordance with the cyber security inspection procedure. This information should be made available using passive media (i.e. CD, DVD) and delivered to the regional office no later than August 13, 2018. The inspection team will review this information and by the end of the planned information gathering visit, October 11, 2018, will identify the specific items that should be provided for review.

The second group of requested documents will assist the team in their evaluation of the critical systems and critical digital assets, defensive architecture, and the areas of the cyber security plan selected for inspection. This information will be requested for review in the regional office prior to the inspection by October 22, 2018.

The third group of requested documents consists of those items that the team will review or need access to, during the inspection. Please have this information available by the first day of the onsite inspection, November 5, 2018.

The fourth group of information is necessary to aid the team in tracking issues identified as a result of the inspection. It is requested that this information be provided to the lead inspector as the information is generated during the inspection. It is important that all of these documents are up to date and complete in order to minimize the number of additional documents requested during the preparation and/or the onsite portions of the inspection.

The lead inspector for this inspection is Greg Pick. We understand that our regulatory contact for this inspection is Lillian Lori Brown. If there are any questions about the inspection or the material requested, please contact the lead inspector at 817-200-1270 or by e-mail at greg.pick@nrc.gov.

This letter does not contain new or amended information collection requirements subject to the Paperwork Reduction Act of 1995 (44 U.S.C. 3501 et seq.). Existing information collection requirements were approved by the Office of Management and Budget under control number 3150-0011. The NRC may not conduct or sponsor, and a person is not required to respond to, a request for information or an information collection requirement unless the requesting document displays a currently valid Office of Management and Budget control number.

This letter and its enclosure will be made available for public inspection and copying at http://www.nrc.gov/reading-rm/adams.html and at the NRC Public Document Room in accordance with 10 CFR 2.390, "Public Inspections, Exemptions, Requests for Withholding."

Sincerely,

/RA/

James F. Drake, Chief
Engineering Branch 2
Division of Reactor Safety

Docket No. 50-382
License No. NPF-38

Enclosure:
Waterford 3 –
  Cyber Security Inspection Document Request

cc w/ encl: Electronic Distribution

Waterford 3 – Cyber Security Inspection Document Request

Inspection Report: 05000382/2018410

Inspection Dates: Weeks of November 5, 2018, and November 26, 2018

Inspection Procedure: IP 71130.10P, "Cyber Security," Revision 0

Reference 1: ML17156A215 - "Guidance Document for Development of the Request for Information (RFI) and Notification Letter for Full-Implementation of the Cyber Security Inspection," Revision 1, dated October 26, 2017

NRC Inspectors:

Greg Pick, Lead	Steve Alferink
817-200-1270	817-200-1548
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Shiattin Makor (Observer)
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NRC Contractors: Timothy Marshall   TBD
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I. *Information Requested for In-Office Preparation*

The initial request for information (i.e., first RFI) provides the team with the general information necessary to select appropriate components and cyber security plan elements to develop a site-specific inspection plan. The team will use the first set of information requested to identify the list of critical systems and critical digital assets plus operational and management security control portions of the Cyber Security Plan to be chosen as the "sample set" required to be inspected during this inspection. The first information request is specified in Table RFI #1. Provide the first set of information to the team leader in the regional office by August 13, 2018, or sooner, to facilitate the selection of the specific items that will be reviewed during the onsite inspection weeks.

The required Table RFI #1 information shall be provided on passive media (i.e. CD or DVD) to the lead inspector by August 13, 2018. Please provide four copies of each media submitted (i.e., one for each inspector/contractor). The preferred file format for all lists is a searchable Excel spreadsheet file on a CD or DVD. The files should be indexed and hyperlinked to facilitate efficient review. If you have any questions regarding this information, please contact the inspection team leader as soon as possible.

Table RFI #1	
Section 3: Initial Documentation Requests (See Reference 1) Paragraph Number/Title:	**Items**
1 List all identified critical systems and critical digital assets	All

Table RFI #1		
Section 3: Initial Documentation Requests (See Reference 1) **Paragraph Number/Title:**		**Items**
2	List critical digital asset facility and site ethernet – transmission control protocol/internet protocol (TCP/IP) based local area networks (LANs) and identify those LAN's that have non-critical digital assets on them	All
3	List critical digital asset facility and site non-ethernet TCP/IP based LANs including those industrial networks and identify LANs that have non-critical digital assets on them	All
4	Network topology diagrams (be sure to include all network intrusion detection systems and security information and event management (SIEMs) for emergency preparedness (EP) networks and security level 3 and 4 networks)	All
8	List all network security boundary devices for EP networks and all network security boundary devices for levels 3 and 4	All
9	List critical digital asset wireless Industrial networks	All
11	Network Intrusion detection system documentation for critical systems that have critical digital assets associated with them	11.a.1) 11.a.2)
12	SIEM documentation for critical systems that have critical digital assets associated with them	12.a.1) 12.a.2)
14	List EP and security onsite and offsite digital communication systems	All
25	Cyber security assessment and cyber security incident response teams	All
28	Copy of current cyber security plan and copy of any 50.54(p) analysis to support changes to that plan	All
29	Copy of any licensee identified violations and associated corrective action program documentation to resolve issue(s)	All

In addition to the above information please provide the following:

(1) Electronic copy of the updated safety analysis report and technical specifications
(2) Name(s) and phone number(s) for the regulatory and technical contacts
(3) Current management and engineering organizational charts

Based on this information, the team will identify and select specific systems and equipment (e.g., critical systems and critical digital assets) from the information requested by Table RFI #1, and submit a list of specific systems and equipment to your staff by the end of the information gathering visit, October 11, 2018, for the second information request (i.e., Table RFI #2).

II. _**Additional Information Requested to be Available Prior to Inspection**_

As stated in Section I, the team will examine the documents from the initial information request, and submit the list of specific systems and equipment to your staff by the end of the information gathering visit, October 11, 2018. This second information request (i.e., Table RFI #2) obtains additional documents required to evaluate the critical

systems and critical digital assets, defensive architecture, and the areas of the cyber security program selected for the cyber security inspection. The additional information requested for the specific systems and equipment is identified in Table RFI #2. All requested information shall follow the guidance document Reference 1.

The Table RFI #2 information shall be provided on passive media to the lead inspector by October 22, 2018. Please provide four copies of each CD/DVD submitted (i.e., one for each inspector/contractor). The preferred file format for all lists is a searchable Excel spreadsheet file on a CD/DVD. These passive media should be indexed and hyperlinked to facilitate efficient review. If you have any questions regarding this information, please call the inspection team leader as soon as possible.

Table RFI #2		
Section 3: Initial Documentation Requests (See Reference 1) Paragraph Number/Title:		Items
5	Plant computer system block diagram (if plant computer system is selected for inspection)	All
6	Plant security system block diagram (if security computer system is selected for inspection)	All
7	Block diagrams for distributed systems (for systems selected for inspection)	All
10	Host-based intrusion detection system documentation for critical digital assets (for systems selected for inspection)	10.a.1) 10.a.2)
13	List all maintenance and test equipment (M&TE) used on critical digital assets (for systems selected for inspection)	All
15	Configuration management	All
16	Supply chain management	16.a 16.b
17	Portable media and mobile device control	All
18	Software management	All
20	Vendor access and monitoring	All
21	Work control	All
22	Device access and key control	All
23	Password/authenticator policy	All
24	User account/credential policy	All
26	Corrective actions since last NRC inspection	All
27	Cyber security assessments for selected systems	All

III. *Information Requested to be Available on First Day of Inspection*

For the specific systems and equipment identified in Section II, provide the following request for information (i.e., Table 1st Week Onsite) on passive media by November 5,

2018, the first day of the inspection. All requested information shall follow the guidance in Reference 1.

Please provide four copies of each CD submitted (i.e., one for each inspector/contactor). The preferred file format for all lists is a searchable Excel spreadsheet file on a CD/DVD. These passive media files should be indexed and hyperlinked to facilitate ease of use. If you have any questions regarding this information, please call the inspection team leader as soon as possible.

Table 1st Week Onsite		
Section 3: Initial Documentation Requests (See Reference 1) Paragraph Number/Title:		**Items**
10	Host-based intrusion detection system documentation for critical digital assets (for systems selected for inspection)	10.a.3) thru 10.a.12)
11	Network Intrusion detection system documentation for critical systems that have critical digital assets associated with them	11.a.3) thru 11.a.15)
12	SIEM documentation for critical systems that have critical digital assets associated with them	12.a.3) thru 12.a.14)
16	Supply chain management	16.c
19	Cyber security event notifications	All
29	Update to licensee identified violations and corrective action program actions taken since the initial request was made	All

In addition to the above information please provide the following:

(1) Copies of the following documents do not need to be solely available to the inspection team as long as the inspectors have easy and unrestrained access to them.

  a. Quality Assurance Plan;

  b. Technical Specifications, if not previously provided;

  c. Latest Individual Plant Examination/Probabilistic Risk Assessment Report; and,

(2) Vendor Manuals, Assessments, and Corrective Actions:

  a. The most recent cyber security quality assurance audit and/or self-assessment; and

  b. Corrective action documents (e.g., condition reports, including status of corrective actions) generated as a result of the most recent cyber security quality assurance audit and/or self-assessment.

IV. *Information Requested To Be Provided Throughout the Inspection*

(1) Copies of any corrective action documents generated as a result of the inspection team's questions or queries during the inspection.

(2) Copies of the list of questions submitted by the inspection team members and the status/resolution of the information requested (provided daily during the inspection to each inspection team member).

If you have any questions regarding the information requested, please contact the team leader.

WATERFORD STEAM ELECTRIC STATION, UNIT 3 – NOTIFICATION OF CYBER
SECURITY INSPECTION (NRC INSPECTION REPORT 05000382/2018410) AND REQUEST
FOR INFORMATION – JULY 23, 2018

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