



UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
REGION I  
2100 RENAISSANCE BLVD.  
KING OF PRUSSIA, PA 19406-2713

March 10, 2017

Docket No. 03029462

License No. 45-23645-01NA

RDML L. Cariello  
Director, Energy and Environmental Readiness Division (N45)  
Office of Chief of Naval Operations  
Department of the Navy  
ATTN: N45, Rm 2D253  
2000 Navy Pentagon  
Washington, DC 20350-2000

SUBJECT: DEPARTMENT OF THE NAVY, MASTER MATERIAL LICENSE BIENNIAL  
INSPECTION NOTIFICATION AND REVIEW QUESTIONNAIRE

Dear Admiral Cariello:

The U.S. Nuclear Regulatory Commission (NRC) has scheduled the biennial inspection of the Department of the Navy's activities under the Master Materials License No. 45-23645-01NA during the week of June 19-23, 2017. The inspection will be conducted in accordance with inspection procedure 87129, "Master Materials Program," which is available on the NRC Web site at:

<http://www.nrc.gov/reading-rm/doc-collections/insp-manual/inspectionprocedure/index.html>

Enclosed is a document entitled, "MML Biennial Review Questionnaire." We request that the elements identified in this enclosure be submitted to the Region I office no later than Friday, May 19, 2017. This *Review Questionnaire* should serve as a guide in preparing for the inspection and may be used as a tool to focus the inspection on the standard elements within the inspection procedure. Please recognize that this biennial inspection will concentrate on the period from April 24, 2015, through the present.

In accordance with 10 CFR 2.390 of the NRC's "Rules of Practice," a copy of this letter will be available electronically for public inspection in the NRC Public Document Room or from the NRC's document system (ADAMS). ADAMS is accessible from the NRC Web site at <http://www.nrc.gov/reading-rm/adams.html>. To the extent possible, your response should not include any personal privacy, proprietary, security-related, or safeguards information so the response can be made available to the public without redaction.





If you have any questions regarding the biennial inspection or the enclosed *Review Questionnaire*, please do not hesitate to contact Shawn Seeley at (610) 337-5102.

Sincerely,

James Dwyer, Chief  
Medical Branch  
Division of Nuclear Materials Safety

cc  
CAPT J. Sanders, Executive Secretary

DOCUMENT NAME: G:\Branch 1\MML-Navy\2017 Biennial\L45-23645-01 2017 Biennial notice and questionnaire.docx

**SUNSI Review Complete:** SSeeley

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NAME								
DATE								

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APPENDIX A

MML Biennial Review Questionnaire

**Please send the checked information to the NRC MML Project Coordinator. The unchecked items should be available for inspection during the biennial review.**

I. Management Oversight

- Organizational chart that includes the Senior Executive Management through the Radiation Control Program staff (current and changes since last biennial inspection).
- Internal management audits or reviews that have been performed to assess the MML Radiation Control Program, the audit or review findings and their resolutions.
- Current internal regulations, policies and/or operating procedures that affect the MML Radiation Control Program.
- List of reportable events or incidents that have occurred since last biennial inspection, include any actions taken to address the problems.
- Current membership of the Master Radiation Safety Committee, including new members, vacancies and actions to fill those positions.
- Minutes of Master Radiation Safety Committee meetings, including dates of meetings, attendance, issues discussed (e.g., MML licensing, program, oversight, inspection, enforcement issues; Master Radiation Safety Committee initiatives and activities; or unique permitting requests/actions, decommissioning activities, enforcement cases, allegations, incidents and events) and their resolutions.
- Prepare a summary of the status of the MML licensee's actions taken in response to NRC's comments and recommendations following the last biennial review.
- Describe any recent efforts, or future plans, on your part to improve the safety performance of permittees operating below acceptable levels for ensuring public health and safety.
- Description of your perspective of your program's strengths and weaknesses. These strengths and weaknesses should be supported by examples of successes, problems, or difficulties which occurred during this review period.
- Updated permit list sorted by NRC program code, by inspection due date, and by priority if possible. Include the following information:

Name	Permit #	Location	NRC prog. code	Priority	Last inspection date	Inspection due date
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II. Technical Staffing and Training

- Provide a staffing plan, or complete a listing of personnel using the suggested format below, that provides the professional (technical) person-years of effort applied to the MML program by individual. Include the name, position, and the fraction of time spent in the following areas: administration, materials permitting & inspection activities, event response, other. If these regulatory responsibilities are divided between offices, the table should be consolidated to include all personnel contributing to the MML radiation control program. Include all vacancies and identify all senior personnel assigned to monitor work of junior personnel. The table heading should be:

Name	Position	Area of Effort	FTE%
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- List all new professional personnel hired since the last review, indicate the degree(s) they received, if applicable, and additional training and years of experience in health physics, or other disciplines, if appropriate.
- List technical staff who have not yet met the qualification requirements of permit reviewer/materials inspection staff. For each, list the courses or equivalent training/experience they need to attend and a tentative schedule for completion of these requirements.
- List the technical staff who left your program during this period.
- List the vacant positions in each program, the length of time each position has been vacant, and a brief summary of efforts to fill the vacancy.

III. Status of Materials Inspections

- Prepare a table identifying the permits with inspections that were/are overdue by more than 25% of the scheduled frequency at any time during the review period. The schedule for inspection frequency is set out in NRC Inspection Manual Chapter 2800. (Note: Although the licensee may be more restrictive and perform inspections more frequently, the list should be based on the inspection frequency in MC2800. Further, unless the MML licensee requests and receives approval from NRC (or has been asked by NRC and agreed) to follow a temporary instruction, the MML will be inspected in accordance with the current inspection procedure and not a temporary instruction.) The list should include initial inspections that are overdue. Include the following information:

Permittee Name	Insp. Frequency	Due Date	Time Overdue
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- Do you currently have an action plan for completing overdue inspections? If so, describe the plan.
- Copy of current log or other document used to track inspections.
- List of Inspection frequency and program code by permit type.

- List individual permittees or groups of permittees that you are inspecting at a different frequency than called for in NRC Inspection Manual Chapter 2800 and state the reason for the change.

IV. Technical Quality of Inspections

- List changes made to your written inspection procedures during the review period.
- Prepare a table showing the number and types of supervisory accompaniments made during the review period, and results of those accompaniments. Include the following information:

Inspector	Supervisor	NRC Program Code	Date
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- Describe internal procedures for conducting supervisory accompaniments of inspectors in the field.
- Describe the type of instrumentation used during inspections and methods/frequency of calibration. Are all instruments properly calibrated at the present time? Were there sufficient calibrated instruments available through the review period?
- List of inspections that resulted in violations. Include the following information:

Permittee	Program code	Date of inspection	Severity Level
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V. Technical Quality of Permitting Actions

- List any major, unusual, or complex permits issued such as amendments, terminations, new permits, decommissioning, or renewals. Also identify any new or amended permits that now require emergency plans.
- Discuss any variances from NRC licensing policies and/or procedures during the review period.
- List changes made in your written permitting procedures (new procedures, updates, policy memoranda, etc.) during the review period.
- Copy of current log or other document used to track licensing actions.
- List non-standard permit conditions used during the review period.
- List pending licensing actions, include the following information:

Permittee	Program Code	Action Type	Date Received
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VI. Responses to Events or Incidents and Safety Concerns or Allegations

- List reportable events or incidents (e.g., medical events, doses to embryo/fetus or nursing child, overexposures, lost and abandoned sources, incidents requiring 24 hour or less notification, etc.) that were ongoing or occurred during the review period. Show whether the incident is open or closed and whether it was reported to the NRC. The list should be in the following format:

Permittee Name	Permit #	Date of Incident/Report	Type of Incident	Status	Reported to NRC
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- During this review period, did any incidents occur that involved equipment or source failure or approved operating procedures that were deficient? If so, how and when were other permittees who might be affected notified? Was timely notification made to NRC?
- For incidents involving failure of equipment or sources, was information on the incident provided to NRC for evaluation of the device for an assessment of possible generic design deficiency? Please provide details for each case.
- List any changes to procedures for investigating incidents and events made during the review period.
- List any changes to your procedures for handling safety concerns or allegations made during the period of this review.
- List of all safety concerns or allegations received during the review period. Show whether the allegation is open or closed and whether it was referred by NRC.
- List of all wrongdoings identified during the review period. Show whether the action is open or closed.