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DNMS

January 2, 2008

Nuclear Material Licensing Branch
U.S. Nuclear Regulatory Commission – Region IV
611 Ryan Plaza Drive, Suite 400
Arlington, TX 76011-4005

SUBJECT: Request for Amendment to U.S. Nuclear Regulatory Commission
Materials License Number 05-27748-01

030-36204

Dear Sir or Madam:

MACTEC Development Corporation is requesting an amendment to the subject license (issued under Docket No. 030-36204, dated September 25, 2006). The requested amendment includes deleting Kris Smith as an authorized user and adding the following individuals as authorized users of licensed radioactive materials under condition 11.A of the license:

- Joe Darman
- Javid Kelley
- Mike Marcial
- Kevin Overbey

If you have any questions or concerns after reviewing this amendment request, please do not hesitate to contact me at (970) 243-2861.

Sincerely,

A handwritten signature in black ink, appearing to read "S. Rima", written over the word "Sincerely,".

Steven D. Rima, CHP, CSP
Vice President
Radiological Services Division

MPM/jd

ACCEPTANCE REVIEW MEMO (ARM)

Licensee: MACTEC Development Corp **License No.:** 05-27748-01
Docket No.: 030-36204 **Mail Control No.:** 471622
Type of Action: Amend **Date of Requested Action:** 01-02-08
Reviewer Assigned: **ARM reviewer(s):** Torres

| Response | Deficiencies Noted During Acceptance Review |
|----------|--|
| | [] Open ended possession limits. Submit inventory. Limit possession. [] Submit copies of latest leak test results. [] Add IC L.C., split cover letter from license, add SUNSI markings to license. [] Confirm with licensee if they have NARM material. |
| | |

Reviewer's Initials: _____ **Date:** _____

| | | |
|------------------------------|-----------------------------|---|
| <input type="checkbox"/> Yes | <input type="checkbox"/> No | Request for unrestricted release Group 2 or >. Consult with Bravo Branch. |
| <input type="checkbox"/> Yes | <input type="checkbox"/> No | Termination request < 90 days from date of expiration |
| <input type="checkbox"/> Yes | <input type="checkbox"/> No | Expedite (medical emergency, no RSO, location of use/storage not on license, RAM in possession not on license, other) |
| <input type="checkbox"/> Yes | <input type="checkbox"/> No | TAR needed to complete action. |

Branch Chief's and/or HP's Initials: _____ **Date:** _____

SUNSI Screening according to RIS 2005-31

Yes No **Sensitive and Non-Publicly Available** if any item below is checked

General guidance:

- _____ RAM = or > than Category 3 (Table 1, RIS 2005-31), use Unity Rule
- _____ Exact location of RAM (whether = or > than Category 3 or not)
- _____ Design of structure and/or equipment (site specific)
- _____ Information on nearby facilities
- _____ Detailed design drawings and/or performance information
- _____ Emergency planning and/or fire protection systems

Specific guidance for medical, industrial and academic (above Category 3):

- _____ RAM quantities and inventory
- _____ Manufacturer's name and model number of sealed sources & devices
- _____ Site drawings with exact location of RAM, description of facility
- _____ RAM security program information (locks, alarms, etc.)
- _____ Emergency Plan specifics (routes to/from RAM, response to security events)
- _____ Vulnerability/security assessment/accident-safety analysis/risk assess
- _____ Mailing lists related to security response

Branch Chief's and/or HP's Initials: RT **Date:** JAN 23 2008

Checklist to Ensure That Radioactive Material Will Be Used as Intended

Applicant Information:

Control No. 471622

| | | |
|-------------------------------|--|-----------------------|
| Name: MACTEC Development Corp | Type of Request: Amend Program Code(s): 03234 | |
| Location: CO | License No.: 05-27748-01 | Docket No.: 030-36204 |

STEP 1, ITEM A - INITIAL SCREENING

| | |
|---|--------------|
| Instructions for Step 1: Complete Step 1 for all applications. If Step 1, Items A and B, are "YES" then do not complete Step 2. Sign and date the completed form and add it to ADAMS as Non-Sensitive and Non-Publicly Available. If a "NO" response is indicated for Item A or Item B, add the completed form to ADAMS as Sensitive and Non-Publicly Available, and complete Step 2 (Additional Screening). If the type of use is subject to a Security Order, complete Step 3, Item A, without delay. If the additional requirements for increased controls will be applied or voided, complete Step 3, Item B, without delay. | YES or NO |
| A. The applicant is a known entity or a licensee transferring control to a known entity. This determination has been made using the screening criteria in Worksheet A below. | Yes |

Worksheet A

| | |
|--|----------------------|
| Instructions for Worksheet A: Answer each of the 6 questions below by placing a "Yes", "No", or "NA" response in the column on the right. Best practices for a reviewer are provided after each of the questions. If the answer to any of the 6 questions is "Yes" then indicate "Yes" in Step 1, Item A, above. If the answers to all of the 6 questions is "No" then indicate "No" in Step 1, Item A, above. NOTE - If the reviewer has personal knowledge of the applicant's veracity, this can be taken into account in responding to any questions. For example, if the applicant's management and/or RSO have been associated with a current or previous NRC or Agreement State license, then the applicant may be considered as a known entity. | YES, NO, or NA |
| 1. Does the applicant have a current Agreement State or NRC license? The reviewer should 1) confirm that a valid license/registration/authorization exists for the applicant; and 2) compare the current license to the application to verify that the application represents a reasonable expansion of the licensee's operation (i.e., medical facility adding a gamma knife or an Agreement State licensee obtaining an NRC license in order to work in NRC jurisdiction without filing reciprocity). | Yes |
| 2. Does the applicant have a current Agreement State or NRC license at another location and the new application represents the addition of a new facility within the scope of the licensee's core business? The reviewer should contact the appropriate licensing authority to confirm that a valid license/registration/authorization exists for the applicant and the corporate office of the licensee to verify that it has knowledge of and approves of the new application. | |
| 3. Does the applicant have a current State or Federal government license, registration, authorization, etc., for other operations within the scope of its proposed license activities? (e.g., a company authorized by a State for mining that is now requesting authorization to use fixed gauges). The reviewer should contact the appropriate government office to confirm that the license, registration, authorization, etc., is valid; and the applicant's corporate office to confirm that it has knowledge of and approves of the new application to possess radioactive materials. | |
| 4. Is the applicant a local, State or Federal government agency? The reviewer should contact the local, State or Federal government office to confirm that the applicant is a government entity. | |
| 5. Does the application only involve the relocation of an existing licensee, or its mailing address, to another State? This includes new licenses created from existing licenses listing locations in multiple States, in preparation for transfer of licenses to States that will shortly sign an Agreement with the NRC. | |
| 6. Is the application only the result of a licensee failing to submit a renewal application in a timely manner? | |

STEP 1, ITEM B - INITIAL SCREENING CONTINUED

| | |
|---|------------|
| <p>B. The applicant is requesting certain radionuclides and quantities that are less than the Risk Significant Quantity (TBq) values in Worksheet B, below, as "highlighted" by the reviewer, or is currently subject to a security order or additional requirements for increased controls. If "Yes", there is no need to proceed further.</p> | <p>N/A</p> |
|---|------------|


Worksheet B - Risk Significant Quantities

(Category 2 Quantities, IAEA Safety Guide No. RS-G-1.9, Categorization of Radioactive Sources, August 2005)

| Radionuclide | Risk Significant Quantity (TBq ¹) | Risk Significant Quantity (Ci ¹) | Radionuclide | Risk Significant Quantity (TBq ¹) | Risk Significant Quantity (Ci ¹) |
|--------------|---|--|---------------------|---|--|
| Am-241 | 0.6 | 16 | Pm-147 | 400 | 11,000 |
| Am-241/Be | 0.6 | 16 | Pu-238 | 0.6 | 16 |
| Cf-252 | 0.2 | 5.4 | Pu-239/Be | 0.6 | 16 |
| Cm-244 | 0.5 | 14 | Ra-226 ² | 0.4 | 11 |
| Co-60 | 0.3 | 8.1 | Se-75 | 2 | 54 |
| Cs-137 | 1 | 27 | Sr-90 (Y-90) | 10 | 270 |
| Gd-153 | 10 | 270 | Tm-170 | 200 | 5,400 |
| Ir-192 | 0.8 | 22 | Yb-169 | 3 | 81 |

¹ The primary values are TBq. The curie (Ci) values are for informational purposes only.
² The Atomic Energy Act, as amended by the Energy Policy Act of 2005, authorizes NRC to regulate Ra-226 and NRC is in the process of amending its regulations for discrete sources of Ra-226.

| | |
|--|--|
| <p>Calculations of the Total Activity or the Unity Rule were completed. NOTE—If an amendment of an existing license is being requested, the calculations will include the previously authorized quantities for the radionuclide(s).</p> | <p>Yes, No, or Not Applicable (NA)</p> |
| <p>Total Activity—multiple activities are requested for a single radionuclide and the sum of the activities is less than the Risk Significant Quantity (TBq) for the radionuclide.</p> | |
| <p>Unity Rule—multiple radionuclides are requested and the sum of the ratios is less than 1.0, e.g., [(total activity for radionuclide A) ÷ (risk significant quantity for radionuclide A)] + [(total activity for radionuclide B) ÷ (risk significant quantity for radionuclide B)] < 1.0.</p> | |

Signature and Date for Step 1:  JAN 23 2008
 License Reviewer and Date

JAN 2 2008

DATE

This is to acknowledge the receipt of your letter/application dated 01-02-08, and to inform you that the initial processing, which includes an administrative review, has been performed.

There were no administrative omissions. Your application will be assigned to a technical reviewer. Please note that the technical review may identify additional omissions or require additional information.

Please provide to this office within 30 days of your receipt of this card:

The action you requested is normally processed within 90 days.

A copy of your action has been forwarded to our License Fee & Accounts Receivable Branch, who will contact you separately if there is a fee issue involved.

Your action has been assigned **Mail Control Number** 471622.
When calling to inquire about this action, please refer to this mail control number.
You may call me at 817-860-8103.

Sincerely,

Colleen Murnahan
Licensing Assistant

: (FOR LFMS USE)
: INFORMATION FROM LTS
: -----
:
: Program Code: 03234
: Status Code: 0
: Fee Category: 4B 3N 2C 1D
: Exp. Date: 20130331
: Fee Comments:
: Decom Fin Assur Reqd: Y
:

BETWEEN:
License Fee Management Branch, ARM
and
Regional Licensing Sections

LICENSE FEE TRANSMITTAL

A. REGION

1. APPLICATION ATTACHED

Applicant/Licensee: MACTEC DEVELOPMENT CORP.
Received Date: 20080107
Docket No: 3036204
Control No.: 471622
License No.: 05-27748-01
Action Type: Amendment

2. FEE ATTACHED

Amount: _____
Check No.: /

3. COMMENTS

Signed Colleen Murnahan
Date 1-09-07

B. LICENSE FEE MANAGEMENT BRANCH (Check when milestone 03 is entered /_/)

1. Fee Category and Amount: _____

2. Correct Fee Paid. Application may be processed for:

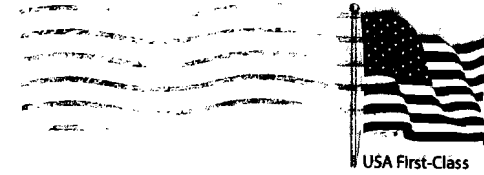
Amendment _____
Renewal _____
License _____

3. OTHER _____

Signed _____
Date _____



MACTEC Development Corp.
751 Horizon Court
Suite 104
Grand Junction, CO 81506



o/x

NUCLEAR MATERIAL LICENSING BRANCH
US NRC REGION IV
611 RYAN PLAZA DR STE 400
ARLINGTON TX 76011-4005

7601134005 0024

