

## ACCEPTANCE REVIEW MEMO (ARM)

**Licensee:** Kleinfelder, Inc. **License No.:** 11-27540-01  
**Docket No.:** 030-34121 **Mail Control No.:** 471275  
**Type of Action:** Amend **Date of Requested Action:** 02-21-07  
**Reviewer Assigned:** **ARM reviewer(s):** Torres

Response	Deficiencies Noted During Acceptance Review
	<input type="checkbox"/> Open ended possession limits. Limit possession. Submit inventory. <input type="checkbox"/> Submit copies of most recent leak test results. <input type="checkbox"/> Add - delete IC license condition. Add IC paragraph in cover letter. <input type="checkbox"/> Split license from cover letter. Add SUNSI marking to license. <input type="checkbox"/> Ask the licensee if they have any type-amount of EAct Material.

**Reviewer's Initials:** \_\_\_\_\_ **Date:** \_\_\_\_\_

- Yes  No Unrestricted release Group 2 or >: Transfer memo to FCDB within 10 days.  
 Yes  No Decommissioning notification should be completed within 30 days.  
 Yes  No Termination request < 90 days from date of expiration  
 Yes  No Expedite (medical emergency, no RSO, location of use/storage not on license, RAM in possession not on license, other)  
 Yes  No TAR needed to complete action.

**Branch Chief's and/or Sr. HP's Initials:** \_\_\_\_\_ **Date:** \_\_\_\_\_

### SUNSI Screening according to RIS 2005-31

Yes  No **Non-Publicly Available, Sensitive** 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 Sr. HP's Initials:** RITZ **Date:** 2-28-07

## Pre-Licensing Screening

### Applicant Information:

Control No. 471275

Name: Kleinfelder, Inc.	Type of Request: Amend Program Code(s):	
Location: ID	License No.: 11-27540-01	Docket No.: 030-34121

### STEP 1—Radioactive Materials and Quantities Requested:

<b>Instructions for Step 1: Complete Step 1 for all applications.</b> If all your responses in Step 1 are "No" then do not complete Step 2 (Screening Criteria). Sign and date the completed step-sheet and add it as the sensitive and non-publicly available OAR in ADAMS. If a "yes" response is indicated for any item in Step 1, also complete Step 2. If the type of use is subject to a Security Order or the requirements for increased controls, complete Step 3 (Item A or Item B) without delay.		Yes or No
A.	The request is from a new applicant.	N
B.	NUREG-1556, Volume 20, Section 4.9 indicates a licensing site visit is needed for the requested type of use, e.g., (1) Type A broad scope license, (2) panoramic irradiator containing > 10000 curies, (3) manufacturers or distributors using unsealed radioactive material or significant quantities of sealed material, (4) radioactive waste brokers, (5) radioactive waste incinerators, (6) commercial nuclear laundries, and (7) any other application that in the judgement of the reviewer and cognizant supervisor involves complex technical issues, complex safety questions, or unprecedented issues that warrant a site visit.	N
C.	The applicant requested certain radionuclides and quantities that equal or exceed the Risk Significant Quantity (TBq) values in the table, below, that have been "highlighted" by the reviewer	N

### Table of 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 <sup>1</sup> )	Risk Significant Quantity (Ci <sup>1</sup> )	Radionuclide	Risk Significant Quantity (TBq <sup>1</sup> )	Risk Significant Quantity (Ci <sup>1</sup> )
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 <sup>2</sup>	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

<sup>1</sup> The primary values are TBq. The curie (Ci) values are for informational purposes only.  
<sup>2</sup> 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.

Calculations of the Total Activity or the Unity Rule are attached to document whether or not the screening criteria in Step 2 were also completed to evaluate the application. <b>NOTE—If an amendment of an existing license is being requested, the calculations will include the previously authorized quantities for the radionuclide(s).</b>	Yes, No, or Not Applicable (NA)
Total Activity—multiple activities are requested for a single radionuclide and the sum of the activities equals or exceeds the quantity of concern for the radionuclide	N
Unity Rule—multiple radionuclides are requested and the sum of the ratios equals or exceeds unity, 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.	N

### Signature and Date for Step 1:

RIR 228-07

License Reviewer and Date

# KLEINFELDER

RECEIVED

FEB 26 2007

DNMS

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

February 21, 2007

Re: License 11-27540-01

To Whom It May Concern:

Please change the Radiation Safety Officer from Bart Larsen to Lisa Doss. A copy of my Nuclear Gauge Operator Training and Radiation Safety Officer Training certificates is enclosed.

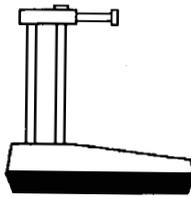
Sincerely,



Lisa Doss

enc: Nuclear Gauge Operator Training Certificate  
Radiation Safety Officer Training Certificate





# NUCLEAR GAUGE OPERATOR TRAINING



This is to certify that

*Lisa Doss*

has successfully completed an eight hour user's course, as required by the United States Nuclear Regulatory Commission and the Agreement States, in the Fundamentals of Radiation Safety and Gauge Operation, for the use of portable moisture density gauges. The course covered:

*Atomic Physics  
Radiation Safety  
Dose/Shielding Calculations  
Accidents/Storage*

*HAZMAT Transportation  
Risk  
ALARA  
Measurement Theory*

*Operation  
Field Applications  
Calibration  
Maintenance*

## Pacific Nuclear Technology Co.

California License Number 5634-07

Date: February 7, 2007  
Certificate Number: 15806

*Mark Harrington*  
Instructor: Mark Harrington

RETAIN A COPY FOR REVIEW BY REGULATORY AGENCY



*RADIATION  
SAFETY OFFICER  
TRAINING*



This is to certify that

*Lisa Doss*

has successfully completed a four hour Radiation Safety Officer seminar, for the use of portable nuclear devices. The seminar covered:

*Duties and Responsibilities  
Radiation Safety Review  
Regulations Review  
Radiation Safety Plan*

*Storage Design  
Survey Meter Measurements  
ALARA Responsibilities  
Working Documents*

*Emergency Response  
Records  
Inspections  
Check List*

**Pacific Nuclear Technology Co.**

California License Number 5634-07

Date: February 7, 2007

Certificate Number: 15809

*Mark S. Hovington*  
Instructor

RETAIN A COPY FOR REVIEW BY REGULATORY AGENCY

2-27-07

DATE

This is to acknowledge the receipt of your letter/application dated 2-21-07, 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:

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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** 471275.  
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: 03121  
Status Code: 0  
Fee Category: 3P  
Exp. Date: 20110731  
Fee Comments:  
Decom Fin Assur Req'd: N

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

LICENSE FEE TRANSMITTAL

A. REGION

1. APPLICATION ATTACHED  
Applicant/Licensee: KLEINFELDER, INC.  
Received Date: 20070221  
Docket No: 3034121  
Control No.: 471275  
License No.: 11-27540-01  
Action Type: Amendment

2. FEE ATTACHED  
Amount: \_\_\_\_\_  
Check No.: 7

3. COMMENTS  
Signed Allen Thurman  
Date 8-27-09

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 \_\_\_\_\_

2315 S. Cobble Point Way, Meridian, ID 83442



**KLEINFELDER**



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 02 1P  
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U.S. Nuclear Regulatory Commission  
 Region IV  
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 Arlington, TX 76011-4005

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