

**FOIA/PA NO: 2016-0252**

## **RECORDS BEING WITHHELD IN PART**

The following types of information are being withheld:

- Ex. 3: ☐ Information about the design, manufacture, or utilization of nuclear weapons  
☐ Information about the protection or security of reactors and nuclear materials  
☐ Contractor proposals not incorporated into a final contract with the NRC  
☐ Other \_\_\_\_\_
- Ex. 4: ☐ Proprietary information provided by a submitter to the NRC  
☐ Other \_\_\_\_\_
- Ex. 5: ☒ Draft documents or other pre-decisional deliberative documents (D.P. Privilege)  
☐ Records prepared by counsel in anticipation of litigation (A.W.P. Privilege)  
☐ Privileged communications between counsel and a client (A.C. Privilege)  
☐ Other \_\_\_\_\_
- Ex. 6: ☒ Agency employee PII, including SSN, contact information, birthdates, etc.  
☒ Third party PII, including names, phone numbers, or other personal information
- Ex. 7(A): ☐ Copies of ongoing investigation case files, exhibits, notes, ROI's, etc.  
☐ Records that reference or are related to a separate ongoing investigation(s)
- Ex. 7(C): ☐ Special Agent or other law enforcement PII  
☐ PII of third parties referenced in records compiled for law enforcement purposes
- Ex. 7(D): ☐ Witnesses' and Allegers' PII in law enforcement records  
☐ Confidential Informant or law enforcement information provided by other entity
- Ex. 7(E): ☐ Law Enforcement Technique/Procedure used for criminal investigations  
☐ Technique or procedure used for security or prevention of criminal activity
- Ex. 7(F): ☒ Information that could aid a terrorist or compromise security

Other/Comments: \_\_\_\_\_

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NRC FORM 591M PART 3  
(10-2003)  
10 CFR 2.201

U.S. NUCLEAR REGULATORY COMMISSION

**Docket File Information  
SAFETY INSPECTION REPORT  
AND COMPLIANCE INSPECTION**

1. LICENSEE <b>Engineering &amp; Inspections Hawaii, Inc.</b>		2. NRC/REGIONAL OFFICE <b>USNRC Region IV</b>	
REPORT NUMBER(S) <b>2007-002</b>			
3. DOCKET NUMBER(S) <b>030-36017</b>	4. LICENSE NUMBER(S) <b>53-27731-01</b>	5. DATE(S) OF INSPECTION <b>February 8, 2007</b>	
6. INSPECTION PROCEDURES USED <b>TI 2800-038</b>	7. INSPECTION FOCUS AREAS <b>IC1-IC6</b>		

**SUPPLEMENTAL INSPECTION INFORMATION**

1. PROGRAM CODE(S) <b>03320</b>	2. PRIORITY <b>1</b>	3. LICENSEE CONTACT <b>Brian McKenna</b>	4. TELEPHONE NUMBER Cell Phone <span style="border: 1px solid black; padding: 0 20px;"> </span> (b)(6)
<input checked="" type="checkbox"/> Main Office Inspection		Next Inspection Date: <b>N/A</b>	
<input type="checkbox"/> Field Office Inspection			
<input type="checkbox"/> Temporary Job Site Inspection			

**PROGRAM SCOPE**

This is an inspection of the licensee's implementation of the increased controls Order as it applies to their radiography program at their facilities in Kapolei, Hawaii and Warren, Pennsylvania. The Warren, PA site was not visited. All records for that site were available and reviewed at the main office in HI. The RSO explained that the methods used to monitor, detect, and respond were almost identical to the ones used in HI.

**IC 1.:** The licensee only allows individuals that have undergone and passed a trustworthy and reliability review, and are approved in writing to have unescorted access to radiography devices. The licensee maintains a list of approved individuals. All records associated with this IC are kept in a locked file cabinet under the control of the RSO. For individuals that were employed by the licensee more than 3 years, they reviewed the employee's employment history, and for individuals that had been employed less than 3 years, they verified employment history, education, and personal references. The licensee does not use service providers.

**IC 2.:** The licensee has documented and implemented a program to monitor, immediately detect, assess, and respond to unauthorized access. The licensee's RAM storage area in Kapolei is



The licensee stated that for HI they do not do off island work that they would be there overnight, they would fly over and back the same day with the RAM under constant surveillance. The work on Oahu (the island they are on) does not require overnight stays either. The work in Warren is strictly at one facility with no overnight jobs. Therefore, the licensee does not have their trucks alarmed but rely on constant surveillance while at temporary job sites. (b)(7)(F)

(b)(7)(F) The inspector explained that if their temporary jobsite work changes to where they might have overnight jobs or not be able to maintain constant surveillance, they would need to review and update their security plan to be able to monitor, immediately detect, assess, and respond to unauthorized access in those situations.

NRC FORM 591M PART 3 (10-2003)

# SAFETY INSPECTION REPORT AND COMPLIANCE INSPECTION

1. LICENSEE <b>Engineering &amp; Inspections Hawaii, Inc.</b> REPORT NUMBER(S)		2. NRC/REGIONAL OFFICE <b>USNRC Region IV</b>	
3. DOCKET NUMBER(S) <b>030-36017</b>	4. LICENSE NUMBER(S) <b>53-27731-01</b>	5. DATE(S) OF INSPECTION <b>February 8, 2007</b>	

### Program Scope (Continued)

IC 3. The licensee does not ship quantities by another carrier above Table 1 limits by domestic highway or rail. The licensee only ships by air. The licensee has procedures for the receipt of RAM that covers the aspects in IC 3(d).

(b)(7)(F) IC 4. As stated above in IC 2, when the radiography devices are in storage  under constant surveillance.

IC 5. The licensee is aware of the provisions of this IC and have them covered in their procedures.

**IC 6. The licensee has developed procedures for controlling access to, and for proper handling of its physical protection information that include the information discussed in this IC.**

**Docket File Information**  
**SAFETY INSPECTION REPORT**  
**AND COMPLIANCE INSPECTION**

1. LICENSEE <b>Engineering &amp; Inspections Hawaii, Inc.</b>		2. NRC/REGIONAL OFFICE <b>USNRC Region IV</b>	
REPORT NUMBER(S) <b>2007-001</b>			
3. DOCKET NUMBER(S) <b>030-36017</b>	4. LICENSE NUMBER(S) <b>53-27731-01</b>	5. DATE(S) OF INSPECTION <b>February 08, 2007</b>	
6. INSPECTION PROCEDURES USED <b>87121</b>	7. INSPECTION FOCUS AREAS <b>03.01-03.07</b>		

**SUPPLEMENTAL INSPECTION INFORMATION**

1. PROGRAM CODE(S) <b>03320</b>	2. PRIORITY <b>1</b>	3. LICENSEE CONTACT <b>Brian McKenna</b>	4. TELEPHONE NUMBER <b>Cell Phone</b> <span style="border: 1px solid black; padding: 0 20px;">(b)(6)</span>
<input checked="" type="checkbox"/> Main Office Inspection		Next Inspection Date: <b>02/2008</b>	
<input type="checkbox"/> Field Office			
<input type="checkbox"/> Temporary Job Site			

**PROGRAM SCOPE**

Persons Contacted: Brian McKenna - President/RSO, Ken McNamara - Site Radiation Supervisor, Garreth Schroeder - Radiographer, and Roger West - Radiographer.

Medium size radiography company with 2 use locations listed on their license. One in Kapolei, HI, which was inspected on site this inspection, and the other in Warren, PA. The records for the PA office were at the HI office, so they were reviewed at this time also. Both the HI and PA offices have 2 Amersham 660B cameras. The HI office has 6 radiographers and 3 assistants, and the PA offices has 3 radiographers and 3 assistants. At the HI office most of their work is performed at the Tesoro refinery, Hickam AFB, and other pipelines on Oahu. Occasionally they will perform off island work on Hawaii, Maui, and Kauai. The work in PA is only performed at one clients refinery and no other temporary job sites. A temporary job site inspection was performed at Hickam AFB this inspection.

(1/2008 edited by RIV)

10 CFR 2.201

**Docket File Information**  
**SAFETY INSPECTION REPORT AND COMPLIANCE INSPECTION**

1. LICENSEE Engineering & Inspections Hawaii, Inc. REPORT NUMBER(S) 2008-001		2. NRC/REGIONAL OFFICE USNRC Region IV	
3. DOCKET NUMBER(S) 030-36017		4. LICENSE NUMBER(S) 53-27731-01	5. DATE(S) OF INSPECTION September 22, 2008
6. INSPECTION PROCEDURES USED 87121, 86740		7. INSPECTION FOCUS AREAS 03.03-03.07	

**SUPPLEMENTAL INSPECTION INFORMATION**

1. PROGRAM CODE(S) 3320	2. PRIORITY 1	3. LICENSEE CONTACT Ken McNamara, Site RSO	4. TELEPHONE NUMBER
(b)(7)(F) X Main Office Inspection		Next Inspection Date: September 2009	
X Field Office Inspection		81-515 Nukuawa Street, Kapolei, Hawaii (records)	
Temporary Job Site Inspection			

**PROGRAM SCOPE**

The licensee is authorized for I-192 and Co-60 sealed sources for use in industrial radiography and DU for shielding. The licensee maintains a site in Warren, Pennsylvania which now is authorized and operates under a State license (PA-1080 issued 7/1/08). The Warren, PA location was removed from the license (Amendment #4). The NRC license authorizes two locations (Amendment #5) in February 2008, both of which were inspected during this inspection for both Safety and Security.

The site RSO is responsible for daily checks, quarterly maintenance, leak tests, inventories, field audits, dosimetry, and surveys. The corporate RSO (Brian McKenna) oversees the site RSO and provides assistance when needed. The licensee has 3 radiographers and 2 radiographer assistants using [redacted]. The work, conducted 2-3/week is primarily at local refineries (Chevron, Tesoro, and seven power plants (coal, trash, fuel oil) locations three of which are outside the area. Some work is performed off island approximately one every 2 months in Maui and Hawaii. Some work was performed on the Marshall Islands for 2 weeks in August 2008. Radiography personnel wear TLDs supplied by Landauer and exchanged monthly. They also wear alarm rate meters and pocket dosimeters which are calibrated annually. The highest whole body dose for 2007 was 240 mRem. The annual review of program was conducted by the site RSO. HazMat and safety training is annual. NDS performs all calibrations. No major problems were identified.

The licensee maintains 8 individuals on the T&R list, all of which have (TWIC) cards with FBI background checks; one was added since the last inspection which met T&R IC-1 requirements. Four were deleted from the PA office and 3 were terminated. The Corporate RSO is listed as the T&R Official. No significant changes to the [redacted] have been made since the last inspection. All security components and communication between systems was adequate. Physical protection information was adequately protected. (b)(7)(F)

Performance Observations:

During the inspection, the inspector reviewed the licensee's radiation safety program relative to the field station and TJS activities in federal jurisdiction. Licensee personnel described the processes used to document and protocols for the transport of licensed material on public highways. The licensee demonstrated the security system, leak test procedures and surveying. The inspector walked down the licensee's materials transportation shipping container and security of the licensed material during transport. Transport container and device labeling met the requirements. There were no issues with shipping documentation. Performance and document review during NRC activities did not identify any violations of safety significance under the scope of the NRC inspection program. No possession or use discrepancies, or reportable events or issues were identified. Since this licensee was located on and at an Agreement State facility, storage of RAM is not NRC jurisdiction.

The last inspection conducted February 8, 2007 was clear. Under the scope of the NRC inspection program, no violations of safety significance were identified for NRC regulated activities. A clear 591M was left in the field with the site RSO.

Persons Contacted:

Brian McKenna, Corporate RSO  
 Ken McNamara, Site RSO  
 Chris Dolan, Radiographer Assistant

**Official Use Only - Security-Related Information**

<input type="checkbox"/> Initial	<input type="checkbox"/> Announced	<input checked="" type="checkbox"/> Unannounced	<input checked="" type="checkbox"/> Routine	<input checked="" type="checkbox"/> Increased Controls
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**NRC FORM 591M PART 3**  
(10-2009) 10 CFR 2.201

**U.S. NUCLEAR REGULATORY COMMISSION**

**Safety Inspection Report  
& Compliance Inspection**

<b>1. LICENSEE</b> Engineering & Inspections Hawaii, Inc.  <b>REPORT NO:</b> 03036017/2009-001	<b>2. NRC/REGIONAL OFFICE</b> U.S. Nuclear Regulatory Commission Region IV, 612 East Lamar Blvd, Suite 400 Arlington, Texas 76011-4125
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<b>3. DOCKET NUMBER</b> 030-36017	<b>4. LICENSE NUMBER</b> 53-27731-01	<b>5. DATE(S) OF INSPECTION</b> December 11, 2009
<b>6. INSPECTION PROCEDURES USED</b> 87121, 88740, TI 2800-038-039	<b>7. INSPECTION FOCUS AREAS</b> 03.03-03.07	<b>8. INSPECTOR</b> Rick Muñoz

**SUPPLEMENTAL INSPECTION INFORMATION**

<b>1. PROGRAM CODE(S)</b> 03320	<b>2. PRIORITY</b> 1	<b>3. LICENSEE CONTACT</b> Brian Ken McNamara, Site RSO	<b>4. TELEPHONE NUMBER</b> <div style="border: 1px solid black; height: 15px; width: 100%;"></div>
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☒ Main Office Inspection:

**Next Inspection Date:** December 2010

☒ Field Office: 91-515 Nukuawa Street, Kapolei, Hawaii (records)

Temporary Job Site Inspection: \*NRC survey instrument used: Ludlum 2401-EC2, #159809, calibration due 10/09/2010

**PROGRAM SCOPE**

The licensee is authorized for I-192 & Co-60 sealed sources for use in industrial radiography & DU for shielding. The licensee maintains a site in Warren, PA that is authorized & operates under a State license (PA-1080 issued 7/1/08). The Warren, PA location was removed from the license (Amendment #4). The NRC license authorizes two locations (Amendment #5) in February 2008, both of which were inspected during this inspection for both Safety & Security.

The site RSO is responsible for daily checks, quarterly maintenance, leak tests, inventories, field audits, dosimetry, & surveys. The corporate RSO (Brian McKenna) oversees the site RSO & provides assistance as needed. The licensee has 2 radiographers & 2 radiographer assistants

The work, conducted 2-3/week is primarily at local refineries (Chevron, Tesoro, & seven power plants (coal, trash, fuel oil) locations three of which are outside the area. Some work is performed off island approximately one every 3 months in Maui & Hawaii. Some work is performed on the Marshall & Mariana Isles. The 880 camera was in Guam at the time of this inspection. Radiography personnel wear TLDs supplied by Landauer exchanged monthly. Radiation workers wear alarming rate meters & pocket dosimeters calibrated annually. The highest whole body dose for 2009 was 909 mRem. The site RSO conducted the annual RPP review & quarterly audits of personnel. EIH maintains 7 survey instruments & extra ARMs & Pocket Dosimeters. 4 area monitors are maintained. Camera devices are returned to the manufacturer for source exchange & maintenance - every quarter. HazMat & safety training is annual. NDS performs all calibrations. The RPP was adequate.

EIH maintains 5 individuals on the T&R list, all of which have (TWIC) cards with FBI background checks; 3 were deleted since the last inspection. The Corporate RSO is listed as the T&R Official. No significant changes to the IC requirements have been made since the last inspection. All security components & communication between systems was adequate. Physical protection information was adequately protected. Compliance with NSTS under TI 2800/039 was also reviewed on this inspection. EIH maintains the NSTS through the NRC's automated system. The latest reports were adequately maintained on the database. The NSTS requirements were met.

Performance Observations:  
 The Inspector reviewed EIH's radiation safety program relative to the field station & TJS activities in federal jurisdiction. EIH personnel described the processes used to document & protocols for the transport of licensed material on public highways. EIH demonstrated the security system, leak test procedures & surveying. The inspector walked down the licensee's materials transportation shipping container & security of the licensed material during transport. Transport container in the darkroom & device labeling met the requirements. Review of EIH's inventory records verified that all licensed material in the licensee's possession had been maintained adequately. The inspector walked down the EIH's materials storage & use locations & through direct observation & the conduct of independent radiological surveys\*, verified the presence & location of licensed material inventoried. Performance & document review during NRC activities did not identify any violations of safety significance under the scope of the NRC inspection program. No possession or use discrepancies, or reportable events or issues were identified.

The last inspection conducted September 22, 2008 was clear. Under the NRC inspection program Manual Chapter 2800; no violations of safety significance were identified for NRC regulated activities. A clear 591M was left in the field with the site & Corporate RSO.

Persons Contacted:  
 Brian McKenna, Corporate RSO  
 Ken McNamara, Site RSO  
 Jarret Sano, Radiographer Assistant  
 Deb Tabbi, Administrative Assistant

NRC FORM 591M PART 3 (Rev. by RIV 03/08)

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SUNSI Review By: R. Rick Muñoz  
 Supervisory Review By: [Signature]

<input checked="" type="checkbox"/> Non-Public <input type="checkbox"/> Public	<input checked="" type="checkbox"/> Sensitive Security-Related Information <input type="checkbox"/> Non-Sensitive
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**Official Use Only - Security-Related Information**

~~Official Use Only - Security-Related Information~~

<input type="checkbox"/> Initial	<input type="checkbox"/> Announced	<input checked="" type="checkbox"/> X	<input type="checkbox"/> Unannounced	<input checked="" type="checkbox"/> X	<input type="checkbox"/> Routine	<input checked="" type="checkbox"/> X	<input type="checkbox"/> Increased Controls
NRC FORM 591M PART 3 (10-2003) 10 CFR 2.201			U.S. NUCLEAR REGULATORY COMMISSION				
<b>SAFETY INSPECTION REPORT &amp; COMPLIANCE INSPECTION</b>							
1. LICENSEE Engineering & Inspections Hawaii, Inc.				2. NRC/REGIONAL OFFICE U.S. Nuclear Regulatory Commission Region IV, 612 East Lamar Blvd, Suite 400 Arlington, Texas 76011-4125			
REPORT NO: 03036017/2011-001							
3. DOCKET NUMBER 030-36017		4. LICENSE NUMBER 53-27731-01		5. DATE(S) OF INSPECTION February 14, 2011			
6. INSPECTION PROCEDURES USED 87121, 86740, TI 2800-038-039		7. INSPECTION FOCUS AREAS 03.03-03.07		8. INSPECTOR Rick Muñoz			
<b>SUPPLEMENTAL INSPECTION INFORMATION</b>							
1. PROGRAM CODE(S) 03320		2. PRIORITY 1		3. LICENSEE CONTACT Brian McNamara, Site RSO		4. TELEPHONE NUMBER (b)(6)	
(b)(7)(F) <input checked="" type="checkbox"/> Main Office Inspection:				Next Inspection Date: February 2012			
(b)(7)(F) <input checked="" type="checkbox"/> Field Office:		91-515 Nukuawa Street, Kapolei, Hawaii (records)					
<input type="checkbox"/> Temporary Job Site Inspection:		*NRC survey instrument used: Ludlum 2401-P, #216052, calibration due 10/25/2011					
<b>PROGRAM SCOPE</b>							
<p>The licensee is authorized for <del>192</del> &amp; Co-60 sealed sources for use in industrial radiography &amp; DU for shielding. The licensee maintains a site in Warren, PA that is authorized &amp; operates under a State license (PA-1080 issued 7/1/08). The Warren, PA location was removed from the NRC license (Amendment #4). The NRC license authorizes two locations (Amendment #5) in February 2008, both of which were inspected during this inspection for both Safety &amp; Security.</p> <p>The site RSO is responsible for daily checks, quarterly maintenance, leak tests, inventories, field audits, dosimetry, &amp; surveys. The corporate RSO (Brian McKenna) oversees the site RSO &amp; provides assistance as needed. The licensee has 4 radiographers &amp; 2 radiographer assistants using two cameras: <u>local refineries (Chevron, Tesoro, &amp; seven power plants (coal, trash, fuel oil) locations three of which are outside the area. Some work is performed off island approximately one every 3 months in Maui &amp; Hawaii. Some work was performed on the Marshall &amp; Mariana Isles. Both cameras were available for inspection. Radiography personnel wear TLDs supplied by Landauer exchanged monthly. Radiation workers wear alarming rate meters &amp; pocket dosimeters calibrated annually. The highest whole body dose for 2010 was 1640 mRem. The site RSO conducted the annual RPP review &amp; quarterly audits of personnel. EIH maintains 7 survey instruments &amp; extra ARMs &amp; Pocket Dosimeters. 4 area monitors are maintained for public dose. Camera devices are returned to the manufacturer for source exchange &amp; maintenance - every quarter. HazMat &amp; safety training is annual. NOS Products, Inc., performs all calibrations. The RPP was adequate.</u></p> <p>EIH maintains 8 individuals on the T&amp;R list, all of which have (TWIC) cards with FBI background checks; 1 was added and 2 were deleted since the last inspection. The Corporate RSO is listed as the T&amp;R Official. No significant changes to the IC requirements have been made since the last inspection. All security components &amp; communication between systems was adequate. The transport vehicles are not equipped with an EID system since vehicles are never left unattended. Physical protection information was adequately protected. Compliance with NSTS under TI 2800/038 was also reviewed on this inspection. EIH maintains the NSTS through the NRC's automated system. The latest reports were adequately maintained on the database. The NSTS requirements were met.</p> <p><u>Performance Observations:</u> The inspector reviewed EIH's radiation safety program relative to the field station &amp; TJS activities in federal jurisdiction. EIH personnel described the processes used to document &amp; protocols for the transport of licensed material on public highways. EIH demonstrated the security system, leak test procedures &amp; surveying. The inspector walked down the licensee's materials transportation shipping container &amp; security of the licensed material during transport. Transport container in the darkroom &amp; device labeling met the requirements. Review of EIH's inventory records verified that all licensed material in the licensee's possession had been maintained adequately. The inspector walked down the EIH's materials storage &amp; use locations &amp; through direct observation &amp; the conduct of independent radiological surveys, verified the presence &amp; location of licensed material inventoried. Performance &amp; document review during NRC activities did not identify any violations of safety significance under the scope of the NRC inspection program. No possession or use discrepancies, or reportable events or issues were identified.</p> <p>The last inspection conducted December 11, 2009 was clear. Under the NRC inspection program Manual Chapter 2800; no violations of safety significance were identified for NRC regulated activities. A clear 591M was left in the field with the site &amp; Corporate RSO.</p> <p><u>Persons Contacted:</u> Brian McKenna, Corporate RSO/Radiographer Ken McNamara, Site RSO/Radiographer Joe Canales, Radiographer Jared Sano, Radiographer Josh Williams, Radiographer Assistant Raymi Sunabe, Administrative Assistant</p>							

NRC FORM 591M PART 3 (Rev. by RIV 03/08)

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SUNSI Review By: R. Rick Muñoz

Supervisory Review By: *R. Rick Muñoz*

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Non-Public

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Public

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Sensitive Security-Related Information

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Non-Sensitive

~~Official Use Only - Security-Related Information~~

~~Official Use Only - Sensitive Internal Information~~

Initial	Announced	<input checked="" type="checkbox"/> Unannounced	<input checked="" type="checkbox"/> Routine	Special	Increased Controls
NRC FORM 581M PART 3 (10-2003) 10 CFR 2.201			U.S. NUCLEAR REGULATORY COMMISSION		
<i>Docket File Information</i> <b>SAFETY INSPECTION REPORT AND COMPLIANCE INSPECTION</b>					
1. LICENSEE <b>Engineering and Inspections - Hawaii Kapolei, Hawaii (Oahu)</b>			2. NRC/REGIONAL OFFICE U.S. Nuclear Regulatory Commission Region IV, 1600 East Lamar Blvd Arlington, Texas 76011-4125		
REPORT NO: <b>2012-001</b>					
3. DOCKET NUMBER <b>030-36017</b>		4. LICENSE NUMBER <b>53-27731-01</b>		5. DATE OF INSPECTION <b>February 28, 2012</b>	
6. INSPECTION PROCEDURES USED <b>87121</b>		7. INSPECTION FOCUS AREAS <b>All</b>		8. INSPECTOR <b>Poston</b>	
<b>SUPPLEMENTAL INSPECTION INFORMATION</b>					
1. PROGRAM CODE <b>3320</b>		2. PRIORITY <b>1</b>		3. LICENSEE CONTACT <b>Ken McNamara, Site RSO/Radiographer</b>	
				4. TELEPHONE NUMBER <div style="border:1px solid black; width:150px; height:20px;"></div>	
(b)(7)(F) <input checked="" type="checkbox"/> Main Office Inspection				Next Inspection Date: <b>February 2013</b>	
<input type="checkbox"/> Field Office					
<input type="checkbox"/> Temporary Job Site Inspection					
<b>PROGRAM SCOPE</b>					
(b)(7)(F) <u>Program Scope:</u> The licensee is a small industrial radiography firm that employs 2 radiographers and 3 radiographer's assistants. The licensee possesses 2 licenses works in Stateside office in Pennsylvania and visits several times a year. Radiography activities are conducted all year in Hawaii. Day-to-day radiation safety work is performed by Site RSO.					
<u>Performance Observations</u> The inspector reviewed operations and records at the main office (Honua location) indicated above. The licensee indicated they did not have any work scheduled for the week the inspector was on the island. They indicated work has been slow lately. The following records were reviewed and found to be adequate: <ul style="list-style-type: none"><li>▪ Leak tests for DU and sources (when not exchanged before leak test was due)</li><li>▪ Source inventory</li><li>▪ Training for one radiographers and one radiographer's assistant (picked at random from the utilization logs) including radiography qualifications, hazmat, OSHA, TWICs and radiation safety training)</li><li>▪ Procedures (standard and emergency)</li><li>▪ Use Logs</li><li>▪ Dosimetry (doses reported by vendor were as high as 450 mrem/month, but some of these higher doses were documented to be from dosimeters placed in checked airline baggage)</li><li>▪ radiation safety audits</li><li>▪ Evaluation of radiographer/radiographer assistant performance (all rather than just the two reviewed for training)</li><li>▪ Radiation instruments available/calibrated as well as calibration and use of PICs and ARMs</li><li>▪ T&amp;R list and other IC paperwork not maintained by the Corporate RSO stateside (with the exception of the LLEA agreement which was provided via email on Monday March 5<sup>th</sup>)</li></ul> Radiography security of the radiography exposure devices in storage (at Nukuama location) were reviewed and the following were found to be adequate: <ul style="list-style-type: none"><li>▪ Radiation Safety controls</li><li>▪ IC controls</li><li>▪ Labeling /posting</li></ul> A Clear 591 was issued from the office.					

NRC FORM 581M PART 3 (Rev. by RIV 03/08)

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SUNSI Review By: <u><i>Anthony Poston</i></u>	<input checked="" type="checkbox"/> Non-Public	<input checked="" type="checkbox"/> Sensitive - Official Use Only
Supervisory Review By: <u><i>Anthony Poston for GNV</i></u>	<input type="checkbox"/> Public	<input type="checkbox"/> Non-Sensitive

~~Official Use Only - Sensitive Internal Information~~



~~Official Use Only - Security Related Information~~

<input type="checkbox"/>	Initial	<input type="checkbox"/>	Announced	<input checked="" type="checkbox"/>	Unannounced	<input checked="" type="checkbox"/>	Routine	<input checked="" type="checkbox"/>	Increased Controls
NRC FORM 591M PART 3 (10-2003) 10 CFR 2.201					U.S. NUCLEAR REGULATORY COMMISSION				
<i>Docket File Information</i> <b>SAFETY INSPECTION REPORT AND COMPLIANCE INSPECTION</b>									
1. LICENSEE Engineering & Inspections Hawaii, Inc.  REPORT NO: 2013-001					2. NRC/REGIONAL OFFICE U.S. Nuclear Regulatory Commission Region IV, 1600 East Lamar Blvd Arlington, Texas 76011-4511				
3. DOCKET NUMBER 030-36017			4. LICENSE NUMBER 53-27731-01			5. DATE OF INSPECTION February 25-March 25, 2013			
6. INSPECTION PROCEDURES USED 87121			7. INSPECTION FOCUS AREAS All			8. INSPECTOR Latischa M. Hanson			
<b>SUPPLEMENTAL INSPECTION INFORMATION</b>									
1. PROGRAM CODE 3320		2. PRIORITY 1		3. LICENSEE CONTACT Brian McKenna, RSO/Ken McNamara/Site RSO			4. TELEPHONE NUMBER [redacted] (b)(6)		
(b)(7)(F) <input checked="" type="checkbox"/> Main Office Inspection:		[redacted]					Next Inspection Date: 02/2014		
Field Office:		[redacted]							
(b)(7)(F) <input checked="" type="checkbox"/> Temporary Job Site Inspection:		Chevron Hawaii Refinery 91-480 Malakole Street, Kapolei, Hawaii							
<b>PROGRAM SCOPE</b>									
Persons Contacted: Jeremy D. Greenwell, Radiographer; Alex James Dyke, Assistant Radiographer; Ken McNamara, Site RSO; Brian McKenna, RSO; Kyle Toyama, Safety Specialist (Chevron); Major Kerry Inouye, Kapolei Police Department. Radiographers/Radiographer Assistants→ Ken McNamara↔Darrell Bussel, GM →Brian McKenna, Owner/President (located in Philadelphia)									
(b)(7)(F) Routine, unannounced safety & security inspection of licensee authorized for industrial radiography. The licensee has a current inventory of three radiography cameras: [redacted]									
(b)(7)(F) [redacted] the licensee is looking into purchasing a selenium camera. The licensee employs 11 radiographers/assistant radiographers, who conduct at TJS locally. Licensee has proceeded toward digital film processing.									
<u>Performance Observations</u>									
(b)(7)(F) TJS inspection at Hawaii Chevron Refinery: observed 2-crew radiography team→conducting radiography operations using IR camera: [redacted] The IR operation was properly cordoned off & surveillance maintained; calibrated survey meter was used, with ALARA/O&E procedures followed. Both personnel had on the required PM/ratemeters/PICs; required TJS documentation available for review. The sole transport vehicle inspected was a small mobile truck [redacted]									
(b)(7)(F) [redacted] Personnel interviews conducted included the following: the licensee's radiation safety program, RAM security, blocking & bracing/transport; O&E procedures; transport vehicle alarms & security; dosimetry; radiation detection & survey meter instrument use; DU leak testing; and required TJS and transport documents. Staff was found to be knowledgeable & no violations were noted. Independent radiation surveys were performed by this inspector (Thermo Model Radeye G, S/N 374, calibration date 10/22/12) showed levels were within regulatory requirements.									

NRC FORM 591M PART 3 (Rev. by RIV 02/08)  
related (2 pages).doc

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SUNSI Review By: LMH

Supervisory Review By:

*Auth. [signature] for [signature]*

☒ Non-Public

☐ Public

☒ Sensitive - Security-Related

☐ Non-Sensitive

~~Official Use Only - Security Related Information~~

**Official Use Only - Security-Related Information**

	Initial	Announced	<input checked="" type="checkbox"/>	Unannounced	<input checked="" type="checkbox"/>	Routine	<input checked="" type="checkbox"/>	Part-37
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**NRC FORM 591M PART 3**  
(10-2003) 10 CFR 2.201

**U.S. NUCLEAR REGULATORY COMMISSION**

*Docket File Information*  
**SAFETY INSPECTION REPORT  
& COMPLIANCE INSPECTION**

<b>1. LICENSEE</b> Engineering & Inspections Hawaii, Inc. (EIHI)	<b>2. NRC/REGIONAL OFFICE</b> U.S. Nuclear Regulatory Commission Region IV, 1600 East Lamar Boulevard Arlington, Texas 76011-4125
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**REPORT NO:** 03036017/2015-001

<b>3. DOCKET NUMBER</b> 030-36017	<b>4. LICENSE NUMBER</b> 53-27731-01	<b>5. DATE(S) OF INSPECTION</b> May 13 through July XX, 2015
<b>6. INSPECTION PROCEDURES USED</b> 87121, 86740, TI 2800-038-039	<b>7. INSPECTION FOCUS AREAS</b> 03.03-03.07	<b>8. INSPECTOR</b> Rick Muñoz

**SUPPLEMENTAL INSPECTION INFORMATION**

<b>1. PROGRAM CODE(S)</b> 03320	<b>2. PRIORITY</b> 1	<b>3. LICENSEE CONTACT</b> Ken McNamara, Site RSO	<b>4. TELEPHONE NUMBER</b> <div style="border: 1px solid black; height: 1.2em; width: 100%;"></div> (b)(6)
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(b)(7)(F) ☒ **Main Office Inspection:****Next Inspection Date:** May 2016

☒ **Field Office:** 91-515 Nukuawa Street, Kapolei, Hawaii (records)

☐ **Temporary Job Site Inspection** \*NRC survey instrument used. Ludlum 2401-P, #216052, calibration due 12/25/2015

**PROGRAM SCOPE**

EIHI is authorized for iridium-192 & cobalt-60 sealed sources for use in industrial radiography including DU for shielding. EIHI maintains their corporate office in Warren, PA. that is authorized & operates under a State license (PA-1080 issued 7/1/08). The Warren, PA location was removed from the NRC license (Amendment #4). The NRC license was authorized for two (2) locations (Amendment #5) in February 2008. During this inspection, both locations were inspected for both safety & security. The site RSO is responsible for daily checks, quarterly maintenance, leak tests, inventories, field audits, dosimetry, & surveys. The corporate RSO (Brian McKenna) oversees the site RSO & provides assistance as needed. EIHI manages five (5) radiographers & four (4) radiographer assistants  (b)(7)(F)

(b)(7)(F)  The remaining three (3) cameras were below the Part-37 thresholds (#D11109, #D2877, #D13041). Radiography crews use two (2) fully equipped rigs & have two (2) fully equipped utility trailers pulled behind a regular pick-up truck using a hitch for work conducted on other Hawaiian islands. At least one (1) of two (2) radiography crews operate daily M-F at the Hawaii Independent Energy Refinery (HIER), Chevron Refinery on the "rail project" inspecting gas pipe lines. Other work was conducted on average 2/week at other local refineries (Tesoro & seven power plants (coal, trash, fuel oil) locations three of which are outside the Kapolei area. In addition, work was conducted on the island of Kauai where one of the utility trailers was used from May 23 through

(b)(7)(F) December 10, 2014.  Work involved valve & production pad NDT performed off island at a "green" power plant (Kauai Bio-Mass Power Plant) on Kauai during 2014. EIHI has been available to work performed on the Marshall & Mariana isles but not since 2009. All exposure devices were available for inspection. A TJS inspection was conducted at the HIER. The crew was using the  (b)(7)(F)

(b)(7)(F)  The source (#Y-504) was appropriately leak tested. Radiography personnel wore appropriately calibrated ARMS, PICSS, and TLDs supplied by Landauer. The highest whole body dose for 2014 was 1360 mRem. The site RSO conducted the annual RPP review on January 19, 2015 & quarterly field audits of personnel. EIHI maintains 7 survey instruments & extra ARMS & Pocket Dosimeters. 4 area monitors are maintained for public dose. Camera devices are returned to the manufacturer for source exchange & maintenance ~ every quarter. HazMat & safety training is annual. NDS Products, Inc. performs all calibrations. The RPP was adequate. No items of non-compliance were identified by the site RSO annual audit. EIHI maintains 8 individuals on the T&R list, all of which have (TWIC) cards with FBI background checks; 2 were added & 1 was deleted since the last inspection. The Corporate RSO is listed as the RO. Since the last inspection,

(b)(7)(F)

Initial security program training for the access authorization program & security plan was completed on May 23, 2014. Recurrent annual security program training is due May 23, 2015. The annual audit of the Security Program was performed by the corporate RSO on January 10, 2015. Physical protection information was adequately protected. Compliance

**(CONTINUED ON PAGE-2)**

NRC FORM 591M PART 3 (Rev. by RIV 03/08)

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SUNSI Review By: R. Rick Muñoz



Non-Public



Sensitive Security-Related Information

Supervisory Review By:



Public



Non-Sensitive

**Official Use Only - Security-Related Information**

NRC FORM 591M PART 3 (continuation)  
(10-2003) 10 CFR 2.201

U.S. NUCLEAR REGULATORY COMMISSION

Docket File Information  
**SAFETY INSPECTION REPORT  
& COMPLIANCE INSPECTION**

1. LICENSEE Engineering & Inspections Hawaii, Inc. (EIHI)		2. NRC/REGIONAL OFFICE U.S. Nuclear Regulatory Commission Region IV, 1600 East Lamar Boulevard Arlington, Texas 76011-4125	
REPORT NO: 03036017/2015-001			
3. DOCKET NUMBER 030-36017	4. LICENSE NUMBER 53-27731-01	5. DATES OF INSPECTION May 13 through July XX, 2015	
6. INSPECTION PROCEDURES USED 87126, 86740, 86750	7. INSPECTION FOCUS AREAS 03.03-03.07	8. INSPECTOR Rick Muñoz	

**SUPPLEMENTAL INSPECTION INFORMATION**

CONTINUED - FROM PART 3

with NSTS under TI 2800/039 was also reviewed on this inspection. EIHI maintains the NSTS through the NRC's automated system. The latest reports were adequately maintained on the database. A source update was last submitted 01/30/15 on the most recent NSTS reconciliation. The NSTS requirements were met.

Performance Observations:

The inspector reviewed EIHI's RPP relative to the office (no RAM), field office & direct observations of licensed activities during a TJS at the Hawaii Independent Energy Refinery (HIER). The inspection consisted of selected record reviews & interviews with EIHI staff. Radiographers demonstrated or described related records following established protocols for the receipt, accountability & transportation of licensed material. EIHI personnel demonstrated the processes used to document & protocols for the transport of licensed material on public highways. The inspector evaluated EIHI's materials transportation shipping containers & security of the licensed material during transport. The two radiographers at HIER demonstrated the performance of leak tests on the radiography devices & demonstrated the appropriate use of radiation survey instrumentations including function checks & daily calibration & use of PICs & ARMs. Radiographers demonstrated or discussed source decay charts & survey measurements taken to verify appropriate posting & control of area boundaries. Radiography operations at HIER involved pipe profiles on 1" & 16" production pipe lines. They also demonstrated material storage accountability/security, EDS & related testing of security systems. In addition, dosimetry & field audits conducted by the RSO & reportable events (none) were discussed. Security controls while in storage, posting & exposure device labeling met the requirements. Transport container in the darkroom & device storage labeling met the requirements. The inspector walked down all use locations of licensed RAM including: the HIER TJS, transport vehicles & temporary/permanent storage vault security zones. Through the conduct of independent radiological surveys<sup>\*\*\*</sup>, the inspector verified the presence & location of licensed material inventoried & assured that public doses were not exceeded & were below the regulatory limits. Review of the licensee's inventory records verified that all licensed material within the EIHI's possession, accountability, & use authority had been controlled, used & maintained adequately. No inventory, possession, or reportable events or issues were identified.

The last inspection conducted January 2015 identified two violations related to Part-37 requirements. One for failing to implement for an Access Authorization program 37.23(f) & although not clear on the violation for failure to develop procedures as per 37.43(b)(1).

(b)(5)

Note: the trailer did not have any EDS.

(b)(5)

Under the performance &amp; document review guidance prescribed in NRC MC 2800 "Inspection Program" &amp;

TI 2800-039

A clear NRC form 591M for both the safety &amp; new Part-37 security requirements was left in the field with the Site RSO.

Persons Contacted:

Ken McNamara, Site RSO

Brian McKenna, Corporate RSO (telephone)

Daryl Bissell, General Manager (HIE)

Martin Johnson, Radiographer (TX #15901)

Aaron Moss, Radiographer (ASNT #206325)

HIER 91-325 Komoehana St, Kapolei, HI (808) 547-3111 (Campbell Industrial Park)