



Incident Event

IE-2506-0051

Consequences

Consequences	Asset
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General Information

Is this radiation related?	Yes
Is the event Insulation related?	No
Did this incident involve a motor vehicle accident?	No
Did the incident occur during T/A activities?	No
Was this a safety violation?	No
Did this incident involve an SSE (Short Service Employee) with less than 6 weeks of employment?	No
Was this a Call-Out Crew?	No

Event Details

Business Entity	HF Sinclair - Rawlins, Wyoming
Location of Incident	41.791070 -107.238663
Did the incident occur at an IRISNDT branch location?	
Company Premises	No
Location Description	Parco Sinclair site Rawlins, Wyoming.
Person Submitting Form	Raymond Cisneros
Incident Date	6/30/2025
Incident Time	11:30 AM
Reported Date	6/30/2025
Reported Time	11:36 AM
Supervisor Reported To	Carlos Telford
Date Reported to Supervisor	6/30/2025
Time Reported to Supervisor	11:40 AM
Date Reported to Safety Department	6/30/2025
Time Reported to Safety Department	11:45 AM
Client	HFSinclair
Client Notified?	Yes
Name of Client Personnel Notified	Operations
Contact Info (telephone or email)	
Date Reported to Client	6/30/2025
Time Reported to Client	11:50 AM

Person Involved	Angelo Antonio VanVleet
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Person Involved	Dale McGrath
Person Involved	Brandon MacManus
Person Involved	Andrew Yates
Person Involved	Dorian Medina
Person Involved	Xavier Flournoy
Incident Summary	Equipment Damage: Cranks melted - Source retrieval event!

Incident Description	<p>NRC REPORTING EVENT IDENTIFICATION: 57791</p> <p>Source stuck in exposed position due to melted / damaged remote crank. Source retrieval necessary to return the sealed source back into the shielded position in the source projector.</p> <p>Incident event: On 6.30.25, a crew was X raying for profiles on the Coker unit at Holly Sinclair in Rawlins, Wyoming at 11:30am. during one of the exposures the cranks outs were accidentally on a hot pipe unnoticed by the crew. After the calculated exposure time of 12sec they tried to retract the source into the shielded position but were unsuccessful. At first glance, the radiographer thought the source was in a bind at the guide tube causing the source to be stuck into the 5HVL collimator and tried to pull back the camera by the cranks to straighten the guide tube. However, upon further investigation the crew saw the cables were burnt and realized the piping was hot enough to melt the yellow side and blue side of the crank outs, which made the retract to shielded position of the source impossible. As soon as Crew Lead realized the source was stuck, he made a judgment call to notify Site Lead at 11:36 am that he needed the source retrieval kit brought to his location with additional help for barricades watch. Additional crewmembers assisted with extending the barricade. Site Lead then called the RSO at 11:40am to notify the situation, the kit made it the area at 11:50am. It was determined that the blue side and yellow side of the of the cables were melted through the protective sheath and the source retrieval team proceeded to cut the drive side (blue cable) to try and hand pull the source into the shielded position. After a failed attempt to cut the blue side, he then went to cut the burnt yellow cable to relieve it from being stuck. After the yellow cable was cut, they went back to the crank outs to reestablish another plan of action. At this time, additional personnel arrived and suggested instead of cutting the drive side to take apart the crank out gear and try and pull the drive cable in by hand. Source retrieval team worked together to take the drive gear apart to hand pull the cable into the shielded position in Spec 150 camera which was successful at 12:03 pm.</p> <p>During the source retrieval the barricade was reestablished to maintain a physical a 2mR barricade and monitored by Apave personnel to ensure no breach of barricade occurred during the source retrieval.</p> <p>A crew member was sent to notify OPS at 11:50 that the source was in a retrieval state and to not let anyone into the area. Operations made a plant wide all call to notify all personnel to stay clear of area. After source was confirmed in a shielded position a plantwide notification was issued identifying an all clear situation.</p> <p>Total exposure time was 33min using a 39.85 ci source. It was in shielded position in collimator 5hvl.</p> <p>Total dose was very minimal for being a retrieval, the highest recorded dose (9.0mR) was received by the source retrieval trained person on site!</p> <p>Dose for retrieval assistant - 1.9 mR Dose for retrieval assistant - .3mR Radiography crew dose for day - 3.5 mR Radiography crew dose for day 4.7mR</p> <p>In depth investigation and in field re enactment completed 7.1.25</p> <p>Coker unit Equipment (jobsite)- C2 Piping Piping Temp - 623°F</p> <p>Angelo and Andrew yates during the Xray setup had the crank outs on top of the insulation piping on C 2. When they re adjusted the camera to make more room for the source tube, the crank outs fell on the uninstillation piping off C-2. At this time the crank outs started to heat up and melt without the crew being aware of this. Once ready to proceed with exposing the source they pulled the crank outs into the catwalk in between C-2 and C-1 to have distance and shielding from the source. They proceeded to expose the source in the collimator to produce the profile image. The Shot time calculated was 12sec. Upon cranking out Apave personnel noticed the cranks were stiffer than normal while cranking out. During that exposure, the cool down process of the crank outs being pulled off the pipe it was enough time to go from melted to molded to the cable during the exposure causing the white inner guide of the yellow cable to mold itself to the cable causing a need for a source retrieval.</p>
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Rope Access

Did this event occur when performing rope access?	No
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Asset, Vehicle, and Property

Company Asset	Yes
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Asset Type	Equipment
Asset Registration Details	No
Asset Description	SPEC - Remote Cranks
Asset Number	SLC001
Market Value	2500.00 USD
Insurance Company Name	
Insurance Agent Name	
Insurance Company Phone Number	
Insurance Policy Number	
Involved Personnel	No
Comments	
Replacement/Repair Cost	2500
Operational Cost	0
Preventable Incident	Yes
Classification Comments	Once the crew identified the resistance on the remote cranks while exposing the source they should have stopped and retracted the source back into the shielded position in the source projector and completed an evaluation of the equipment.

Life Saving Rules

Were there any Life Saving Rule Violations? (Check all that apply)	None
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Event Severity

Dropped Object	No
Initial Potential Severity	High (15)
Initial Actual Severity	Medium (3)
Investigation Required	Yes
Work Stopped	Yes

Incident Conditions

Operational Activity	RT
Location Within Category	Client Site
Weather Conditions	N/A
Light Conditions	Daylight
Condition Notes	Due to regulations and reporting requirements set forth by the NRC (10 CFR part 30.50 b. (2)), reporting details of this incident are to be formally given within 24 hrs. of the incident.

Witnesses

Full Name	Brandon Macmanus
Phone Number	
Describe Involvement	Source retrieval assistant
Statement Taken	Yes
Full Name	Dale Mcgrath
Phone Number	
Describe Involvement	Source retrieval assistant
Statement Taken	Yes

Full Name	Angelo Antonio VanVleet
Phone Number	
Describe Involvement	Tech / source Retrieval
Statement Taken	Yes
Full Name	Dorian Medina
Phone Number	
Describe Involvement	Barricade watch
Statement Taken	Yes
Full Name	Andrew Yates
Phone Number	
Describe Involvement	Barricade watch
Statement Taken	Yes

Attachments

Attachments



Witness Statement Angelo VanVleet.pdf



Witness Statement_AndrewYates.pdf



Witness Statement_DaleMcGrath.pdf



Witness Statement DorianMedina.pdf



Witness Statement_BrandonMacManus.pdf



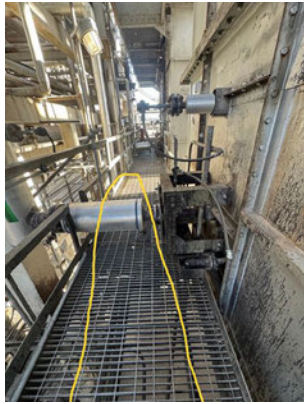
crankout Quarterly SLC 001.pdf



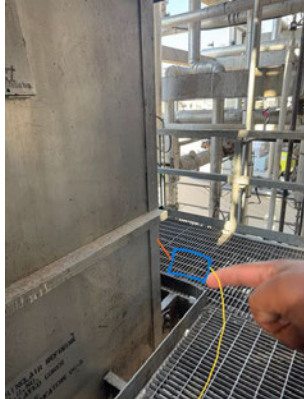
barricade view of area around C 2 heater in cooker unit .JPG



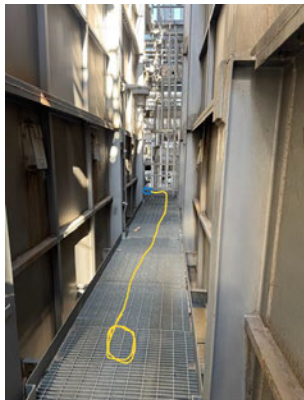
cable burn on piping.JPG



cable left on piping during RT setup. .JPG



camera placement of time of exposure hangout. shielding available from furnace. .JPG



crankout lay out during exposure.JPG



xray setup.JPG



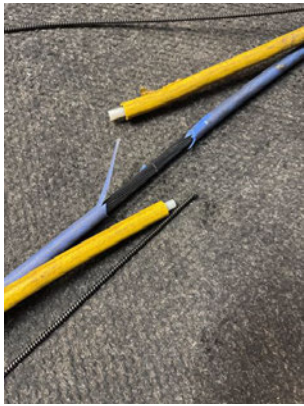
crank out connector.jpg



blue and yellow cable cut . Blue cable failed attempt to cut. .jpg



red quarterly tag showing Maintenance .jpg



Cut cable to find bind inside blue cable, bind was at location of failed attempt to cut blue guide.jpg



burn mark on yellow guide cable.jpg



inner white sleeve melted into cable inside of yellow guide. .jpg



transport Document (survey Report).pdf

Report Classification & Severity

Radiation Incident Type	Damaged Equipment, Improper Use of Equipment, Source Retrieval
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Radiation Information

CNSC or NRC Informed?	Yes
Comments	Source Retrieval - Damaged Equipment

Calculated Dose Absorption:	
MsV	
mR	9.0
TLD Reading	
MsV	
mR	
Other Exposure	
Activity of Source	
Bq	1,474.45
Ci	39.85 Ci
DRD Reading	
MsV	
mR	
Shielding	Yes

Equipment Identification

Equipment Identification Type	Control Cables
Badge Type	Control Cables
Model	Spec 150
Serial #	SLC-001
Cal Due	9/15/2025
Equipment Identification Type	Exposure Device ID
ID Number	2692
Badge Type	Source ID
Model	SPEC 150
Serial #	2692
Equipment Identification Type	Source ID
ID Number	GC2401
Serial #	GC2401

Third Party Incident

Third Party (Member of the public suffers injury or damage to personal property while within project limits) Note: Third Party Information must also be completed.	No
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Employee & Supervisor Information

Last Name	VanVleet
First Name	Angelo
Phone Number	
Position	RT Technician
Supervisor Name	Carlos Telford
Contact Number	

Badge #	03288
Badge #	02112
Badge #	03439
Badge #	03205
Badge #	03438
Badge #	03441
Shift Start Time	7:00 AM
Shift End Time	3:30 PM
Additional Information	Source Retrieval performed: Remote handling cranks damaged due to surface contact with hot source melting the exterior coating and inner liner of the crank assembly melting the cable to the white plastic inside protective yellow.

Investigation Overview

Investigation Due Date	7/3/2025
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Assigned Investigators

Assigned Investigator	Raymond Cisneros
Position	NDT Services
Assigned Investigator	John Wojno
Position	Safety
Assigned Investigator	Carlos Telford
Position	NDT Services

Investigation Team Leaders

Full Name	Joshua A. Coons
Position	Safety

Severity

Potential Severity	High (15)
Actual Severity	Medium (3)

Investigation Timeline

Details	crew on unit x-raying pipe when source would not come back into shielded position
Date	6/30/2025
Time	11:30 AM

Details	Angelo called Carlos Telford to explain the situation that the source was not coming back into a shielded position and he needed the retrieval kit.
Date	6/30/2025
Time	11:36 AM
Details	Carlos Telford Notified RSO and sent a Retrieval kit to Angelo along with help from other RT techs to support barricade watch.
Date	6/30/2025
Time	11:40 AM
Details	Scott stroud notified Raymond Cisneros. Raymond Cisneros called Josh coons to notify we have a live Source retrieval in process at Sinclair Wyoming
Date	6/30/2025
Time	11:45 AM
Details	Josh coons Notified John Wjano about he situation to report it to the NRC.
Date	6/30/2025
Time	11:50 AM
Details	additional help arrived to Angelo location to help with barricade watch and to help retrieve the source if needed. - they had extra barricade in hand - brought the source retrieval kit - sent Dorian to talk to operations to notify them of the situation - Operations made an all call over the radio to tell personnel to remain out of the Coker unit.
Date	6/30/2025
Time	11:50 AM
Details	source was successfully brought into the shielded position. documentation process started.
Date	6/30/2025
Time	12:03 PM
Details	operations notified that source was in shielded position - gave the all clear sound.
Date	6/30/2025
Time	12:09 PM

Cause Analysis

Include Cause Analysis	Yes
Cause Analysis	Lack of situational awareness

5 Why Analysis

Include 5 Why	Yes
Problem	crankout left on Hot piping which caused a melted cable.

Five Whys	Why	why did we not have the crank outs go under the pipes on top of the deck instead of the cranks going over the hot piping?
	Why	why did take so long to noticed or smell burning plastic ?
	Why	why did take so long to notify operations?
	Why	why was the first option to pull source by the crank outs?
	Why	why did we deiced to cut the cables?
	Why	Why did the crew not identify the resistance in the crank outs when exposing the source and stop the job to re assess the situation and check the equipment?

CAPA Required

Create CAPAs	Yes
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Comments

Investigation Comments

Communication Log

Person Making Contact	Angelo VanVleet
Communication Date	6/30/2025
Communication Time	11:30 AM
Comments	Contacted the site supervisor regarding an issue with the ir-192 source stuck out due to remote crank cable being melted.
Agency or Person Contacted	Carlos Talford
Case or Tracking Number	
Email Address	Carlos.talford@irisndt.com
Phone Number	██████████
Person Making Contact	Carlos Talford
Communication Date	6/30/2025
Communication Time	11:40 AM
Comments	Contacted Regional RSO asking for source retrieval kit to be brought to site for retrieval of stuck out ir-192 source. RSO Raymond Cisneros was present in during this call.
Agency or Person Contacted	Scott Stroud
Case or Tracking Number	
Email Address	Scott.Stroud@irisndt.com
Phone Number	██████████
Person Making Contact	Raymond Cisneros
Communication Date	6/30/2025
Communication Time	11:45 AM
Comments	Contacted CRSO regarding source retrieval event at Rawlins, WY site.

Agency or Person Contacted	Josh Coons
Case or Tracking Number	
Email Address	Josh.Coons@irisndt.com
Phone Number	
Person Making Contact	Josh Coons
Communication Date	6/30/2025
Communication Time	11:45 AM
Comments	CRSO contacted Apave NRC RSO regarding stuck out source/retrieval situation at Rawlins, WY HF Sinclair facility.
Agency or Person Contacted	John Wojno
Case or Tracking Number	
Email Address	john.wojno@irisndt.com
Phone Number	
Person Making Contact	John Wojno
Communication Date	6/30/2025
Communication Time	1:40 PM
Comments	Contacted NRC inspector Ryan Craffey to inform the NRC of a source retrieval event in Rawlins, WY. details and investigation to follow. Must contact Main NRC HQ within 24 hrs of the event!
Agency or Person Contacted	Ryan Craffey
Case or Tracking Number	
Email Address	ryan.craffey@nrc.gov
Phone Number	

Corrective and Preventative Actions

CAPA Form	C-2507-0006
Assigned To	Angelo Antonio VanVleet
Action Type	Opportunity For Improvement (OFI)
Due Date	7/1/2025
Priority	Low
Findings	Crank outs on hot piping that will lead to burns on cables melting
Action Description	<p>we as a group are going to discuss how a little overlooked detail and impact your daily RT.</p> <p>well discuss in the morning meeting the importance of minding your surrounds and to be observant when in the field. with crank out placements, source tube placements, and all your surroundings in general while working in the field.</p> <p>The importance of updating your jsa and new hazards arise.</p>

From: [Ryan Craffey](#)
To: [John Wojno](#)
Cc: [Josh Coons](#)
Subject: RE: Final Report for NRC Reported incident # 57791
Date: Wednesday, July 9, 2025 11:11:00 AM

Good morning John,

This acknowledges receipt of your correspondence dated July 8, 2025, providing a written report of an incident on June 30, 2025, involving the inability to retract a radiography source to its fully shielded position at a temporary job site in Sinclair, Wyoming. The U.S. Nuclear Regulatory Commission (NRC) has reviewed your report and confirms that it was received timely and contained all required information. The NRC has no additional questions or concerns regarding the incident. The NRC found the response to the incident to be prompt, appropriate, and effective at maintaining safety during abnormal conditions, and the written report to be thorough and informative. Both are greatly appreciated.

In accordance with the NRC's "Rules of Practice" in Title 10 of the Code of Federal Regulations Section 2.390, a copy of this correspondence will be available electronically for public inspection in the NRC's Public Document Room or in the NRC's Agencywide Documents Access and Management System (ADAMS), accessible from the NRC's website at <https://www.nrc.gov/reading-rm/adams.html>

Please feel free to contact me if you have any questions or would like to provide any additional information regarding the incident. Thank you!

Ryan Craffey
Senior Health Physicist
US Nuclear Regulatory Commission
Materials Inspection Branch, Region III
(630) 829-9655

License No.13-32791-01
Docket No. 030-38777
NMED 250248 (closed)

From: John Wojno <john.wojno@irisndt.com>
Sent: Tuesday, July 8, 2025 5:06 PM
To: Ryan Craffey <Ryan.Craffey@nrc.gov>
Cc: Josh Coons <Josh.Coons@irisndt.com>
Subject: [External_Sender] Final Report for NRC Reported incident # 57791
Importance: High

Ryan,

Attached is the final report for the Source retrieval that occurred in Rawlins, WY on 6-30-2025 @ approx.. 11:30 am. I have also a zip file that is too large to email if you have a teams or another way I can copy that to you, this will assist you with reviewing the final report.

Otherwise please reach out to me if you have other questions or comments.

Thank you in advance,

John Wojno
Regional Safety Manager / RSO

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