

Mission Success Starts With Safety



Construction Safety

SSC Construction Inspection
Safety Findings/Stats

April 2013



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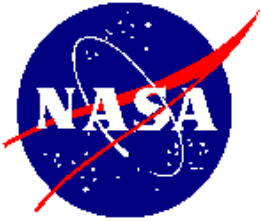
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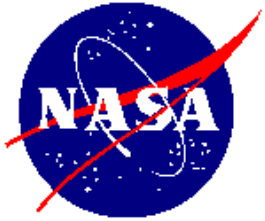
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Construction Safety Findings: 01-05 April 2013

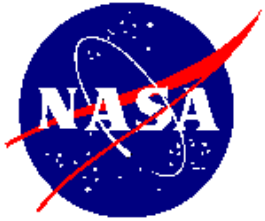
Findings Total: 1

-Serious Findings: 1

1. An employee was observed wearing a personal fall arrest harness without the left arm or chest strap secured, while exposed to a fall from level seven. 29 CFR 1926.503

-Less than Serious Findings: 0

Mishaps / Close Calls: 0



Construction Safety Findings: 08-12 April 2013

Findings Total: 1

-Serious Findings: 0

-Less than Serious Findings: 1

1. Respirator cartridges not being kept in plastic bags (Maintenance and care of respirators, storage) in accordance with 29CFR1910.134 (h) (2) (I); Respiratory Protection Plan. *"All respirators shall be stored to protect them from damage, contamination, dust, sunlight."*

Mishaps / Close Calls: 0

Other:

1. LaRC (Langley Research Center) Mishap Warning Action Response
(see following slides)

Mishap Warning-Action-Response

IRIS Case No. S-2013-046-00004	Mishap Title LaRC New Town II—Welding Injury
NASA Advisory No. NASA-LaRC-2013-01	Date of Warning-Action-Response 2013-04-01
Mishap Classification Type B	Dollar Property Loss/Injury Severity Overnight hospitalization
Date of Mishap 2013-02-15	Location or Center of Mishap Langley Research Center (LaRC)

Brief Description of Mishap

On February 15, 2013 at approximately 11:45 a.m. EST, a General Services Administration (GSA) subcontractor was working at the New Town II project construction site at Langley Research Center (LaRC). During welding, the worker's synthetic clothing caught fire resulting in second-degree burns to his leg.

Problem Description and Details

The New Town Project, managed by GSA, is a 15-year repair by replacement revitalization project at LaRC, which when completed in 2020, will consist of six new and two rehabilitated buildings. On February 15, 2013, a subcontractor welder was applying puddle welds on the second floor decking of the future Integrated Engineering Services Building (IESB) (Figure 1), when his synthetic sweatpants (worn under denim pants) ignited from contact with weld material (Figure 2).



Figure 1. Integrated Engineering Services Building Second Floor Decking

IRIS Case No. S-2013-046-00004	Mishap Title LaRC New Town II—Welding Injury
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Date of Mishap 2013-02-15	Location or Center of Mishap Langley Research Center (LaRC)



Figure 2. Site of Contact on Welder's Exposed Synthetic Clothing

The resulting fire caused second- and third-degree burns to the welder's lower leg. In addition, a coworker, attempting to assist by smothering the flames, sustained first-degree burns.

Personnel at the construction site transported both injured parties to the LaRC Medical Services unit. Medical services personnel contacted LaRC dispatch requesting emergency transport to a nearby burn unit located at Sentara Norfolk General Hospital. The welder's injuries resulted in overnight hospitalization. The incident was classified as a Type B mishap.

At the time of the mishap, welding was being done under a site Hot Work Permit (HWP) requiring a fire watch, which was in place. Work has resumed at the construction site with additional fire watch checks and improved training for personnel involved in hot work.

Mishap Warning-Action-Response

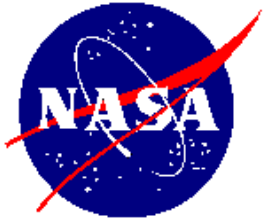
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Date of Mishap 2013-02-15	Location or Center of Mishap Langley Research Center (LaRC)

Action Recommended

1. Share this MWAR with Center personnel responsible for hot work operations.
2. Review Center procedures and HWP's and update to include stipulation that welders are not to wear synthetic clothing or cuffed pants. (Reference the American Welding Society (AWS) fact sheet and ANSI Z49.1).
3. Ensure Center's available fire watch training includes a hazard warning associated with wearing synthetic fabrics.
4. Make certain Center's HWP's require fire extinguishers appropriate for the work and fire watch while monitoring areas as well as workers' clothes.

Response Required: None

MWAR Technical Point of Contact Name: Charles Poupard Center, Facility, or Program: LaRC	Phone: 757-864-3011 Fax: 757-864-4918 Email: charles.a.poupard@nasa.gov
MIB Legal Advisor Name: Kenneth Goetzke Date Signed: 2013-03-05	MIB Public Affairs Advisor Name: Christopher Rink Date Signed: 2013-03-05



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Construction Safety Findings: 15-19 April 2013

Findings Total: 1

-Serious Findings: 0

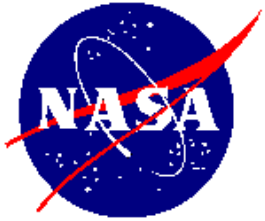
-Less than Serious Findings: 1

1. Employees working without the minimum required Personal Protective Equipment (PPE) for a construction site. SCWI-8715-0008(9.3)

Mishaps / Close Calls: 0

Other:

1. As of the end of March 2013, 875,000 hours have been worked at the A-3 Test Stand construction site without a Lost Time Incident.



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Construction Safety Findings: 22-26 April 2013

Findings Total: 0

-Serious Findings: 0

-Less than Serious Findings: 0

Mishaps / Close Calls: 0



Don't forget – due today!

NASA / SSC CONTRACTOR Mishap Exposure Report MONTHLY

ACE CONSTRUCTION NNS13AA25T 2013 April
General Contractor Contract Number Fiscal Year Month

Contractor and all Sub-Contractors by Name	Average # of Workers	Total Hours Worked	Close Calls	Incidents that require a NASA Mishap Report (NF 1627)				Lost Time Incident Rate**	OSHA Incident Rate ***	
				# of Fatalities	Incidents with Property Damage or Minor Injury	# of Job Transfer or Restricted Duty Cases	# of Lost Time Injury/Illness Cases			# of OSHA Recordable Injury/Illness Cases*
ACE CONSTRUCTION	13	2080	0	0	0	0	0	0	0.00	0.00
Top Rate Excavation	15	2400	0	0	0	0	0	0	0.00	0.00
Straight Survey, Inc	3	120	0	0	0	0	0	0	0.00	0.00
TOTAL	31	4600	0	0	0	0	0	0	0.00	0.00

Joe Safety Safety May 2, 2013 ACE CONSTRUCTION
Name of Submitter Title Date Company

* Total # of OSHA Recordable Injuries / Illnesses for the Calendar Month excluding Lost Time Incidents.

** Lost Time Incident Rate = $\frac{\text{Total \# of Lost Time Injuries} \times 16,667}{\text{Total Hours Worked}}$

***OSHA Incident Rate = $\frac{\text{Total \# of OSHA Recordables} + \text{Lost Time Injuries} \times 16,667}{\text{Total Hours Worked}}$



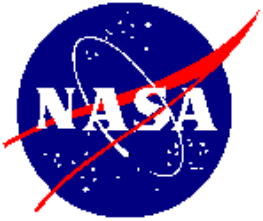
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Summer is fast approaching, let the following video remind you to practice safety at home too...

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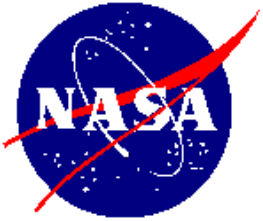


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Questions?



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Have a SAFE month!

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