



Mission Success Starts With Safety



Construction Safety

SSC Construction Inspection
Safety Findings/Stats

April 2014



Mission Success Starts With Safety



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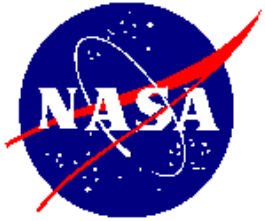
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Construction Safety Findings: 31 March-04 April 2014

Findings Total: 0

-Serious Findings: 0

-Less than Serious Findings: 0

Mishaps / Close Calls: 0

-Other:

To meet requirements of NPR 8621.1, section 1.4.23, regarding Mishap Investigations.

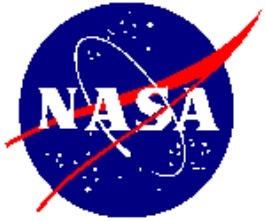
SCWI-8715-0008 SSC Construction Safety and Health Program Rev E (11/22/13)

4.0 ROLES AND RESPONSIBILITIES

4.1 NASA SSC Construction Contractors

Construction contractors at SSC shall:

6. Ensure at least one (1) employee is trained in the Mishap Investigation Board Orientation posted to the Construction Safety Site at <http://constructionsafety.ssc.nasa.gov/> per contract. This course shall be taken within five (5) working days after granting of notice to proceed to enable support of an accident investigation.



Construction Safety Findings: 07-11 April 2014

Findings Total: 0

-Serious Findings: 0

-Less than Serious Findings: 0

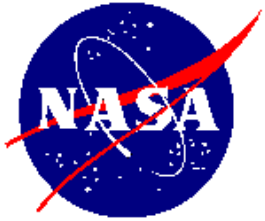
Mishaps / Close Calls: 1

-Mishap: 1

1. A worker on Level 8 tripped and rolled the left ankle, causing a sprain to a previously broken ankle. The worker refused medical treatment that day. The following day, the worker complained of pain and was brought to the SSC Clinic for First Aid treatment only and referred to an Orthopedic Specialist. The worker was given a special boot by the Specialist and allowed to return to work. The issuance of the boot made this case an OSHA Recordable or NASA Type D Mishap.

Other:

On April 26, 2014 (Saturday), there will be a site-wide test on the Helium system where the pressure will be increased to 4,700 psi. Due to the potential for failure, it has been requested that no construction activity take place in the test complex on that day. The appropriate CO's and COR's have been notified.



Construction Safety Findings: 14-18 April 2014

Findings Total: 0

-Serious Findings: 0

-Less than Serious Findings: 0

Mishaps / Close Calls: 1

-Close Call: 1

1. Water flooded office areas of level 4 when the test stand post tensioning tendon chase ways were left unsealed during an overnight heavy rain event. The contractor voluntarily removed the water from the office spaces and cleaned the carpets. Additionally, the contractor's supervisor will physically inspect the area at the end of each shift to ensure waterproofing is adequate to prevent future incidents.

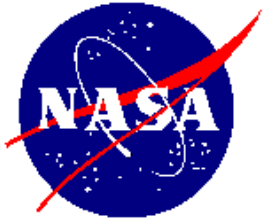
Other:

1. The following slides were taken from a larger presentation to be used during a Lunch and Learn session for the OSHA VPP audit team this week, spotlighting the relationship between NASA and the Gulf Coast Safety Council.



Construction Safety Findings: 14-18 April 2014

- In 2007, A VPP Gap Analysis reviewed the SSC Construction Safety Training Program, a prepackaged slide presentation administered by the individual construction contractor, and identified the following weaknesses:
 - **Job site audits revealed poor safety comprehension, following training (as reflected by inspection findings)**
 - **Training delivered while on site**
 - **Training delivered by non safety professionals**
 - **Lack of a proficiency exam**
 - **Poor tracking of training records**
- Based on this, a method was sought to improve the training and awareness, before the construction contractor enters SSC.



Construction Safety Findings: 14-18 April 2014

- The Gulf Coast Safety Council (GCSC), a member of the Association of Reciprocal Safety Councils, was selected to help in the training.
 - GCSC already had a large clientele in the petrochemical industry from Houston, TX to Pascagoula, MS
 - Two locations (MS, LA, plus 26 reciprocal safety council locations), as well as capability to provide on-site training
 - 501(c) nonprofit organization
 - Infrastructure (independent of SSC) in place to proctor training/exams, track results, and maintain the training packages (SSC Orientation, Basic Orientation Plus BOP.)
 - Train approximately 22,000 workers annually

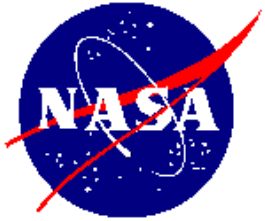


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Construction Safety Findings: 14-18 April 2014





Construction Safety Findings: 21-25 April 2014

Findings Total: 0

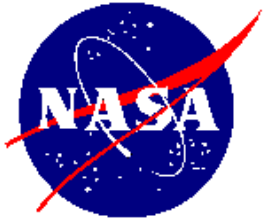
-Serious Findings: 0

-Less than Serious Findings: 0

Mishaps / Close Calls: 0

-Other:

1. Update on the Test Complex Helium Pressure Test: On April 26, 2014 (Saturday), there was a site-wide test on the Helium system where the pressure was successfully increased to 4,700 psi.
2. SSC Passed it's OSHA VPP Recertification with flying colors. Relative to Construction Safety, the following charts describe findings which were generated and closed.



Construction Safety Findings: 21-25 April 2014

Finding 003:

SCWI-8715-0008, Rev. E, Construction Safety & Health Handbook

Finding

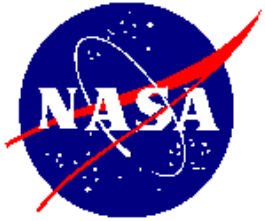
- Section 6.3.2, 1 (a), requires that certification card be signed off by OSHA “certified” trainer.

Correction:

- VPP auditor recommendation:
 - Change the word “certified” to “authorized”.

Correction Status:

- Document changed to reflect recommendation.
 - Revision is now E1.



Construction Safety Findings: 21-25 April 2014

Finding 005:

Mishap Investigation

Finding

- A subcontractor had an employee cut their hand in July 2013. As part of the contractor's report, improvement listed giving a monetary incentive of \$100.00 per/employee if no repeat or similar incidents in a 60 day period.
 - No evidence to show that monetary incentive was given and this type of practice is frowned on by OSHA. It could invite employees to not report incidents.



Construction Safety Findings: 21-25 April 2014

Finding 005:

Response:

- Stennis Space Center has no business relationship with the subcontractor Rather, we have a contract through the NASA Direct Prime Contractor with whom we have an agreement to exercise a safety incentive fee. Mishaps that occur under this contractor's watch (whether they are a direct or subcontractor) have been/are investigated by the contractor, with NASA being the ultimate adjudicator of the legitimacy of the proximate cause, contributing causes, root causes, and corrective actions. Safety Incentive Fee Plans for the subcontractors are reviewable by the Prime Contractor and not NASA.
- In similar fashion to OSHA, at SSC when out of compliance conditions are found on the worksite, fines (as leveraged through the safety incentive fee) are assessed, for example, first violation PPE - \$1000. A finite pot of money (established through the prime) is set up by contract to utilize for this purpose. Should the contractor be found not reporting any incident (or close calls), all the safety fee can be deducted, providing the impetus for prompt and accurate notification.



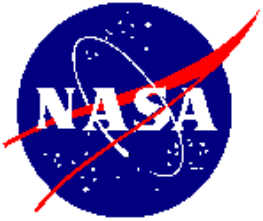
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Questions?

<http://constructionsafety.ssc.nasa.gov/>



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Have a Safe month!

<http://constructionsafety.ssc.nasa.gov/>