Construction Safety

SSC Construction Inspection Safety Findings/Stats

June 2014

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Construction Safety Findings: 02-06 June 2014

Findings Total: 0

-**Serious Findings: 0**

-**Less than Serious Findings: 0**

Mishaps / Close Calls: 2

-Mishap

1. Near the end of the day, a subcontracted worker was attempting to lift a large tool and experienced a sharp pain in the lower back. The worker continued to work and went home at the end of the shift. The worker returned to work the following day and reported a complaint of pain to the supervisor. The worker was taken to the SSC Clinic for evaluation. No medical treatment was performed however, the worker was issued prescription medication, making this an OSHA Recordable or NASA Type D Mishap. The worker has returned to work and the contractor is investigating this incident.

-Close Call

1. A small fire started when welding slag from Level 11 came in contact with plastic that was covering exterior lights on a lower level. The fire watch and the welder were alert and immediately extinguished the fire, preventing damage to the lights. Although the safety measures in place worked properly, a close call was generated to identify potential process improvements.

-Other:

1. Several construction contractors at Stennis Space Center voluntarily participated in the OSHA National Safety Stand-Down to Prevent Falls in Construction this week.

Construction Safety Findings: 02-06 June 2014

Construction Safety Findings: 09-13 June 2014

Findings Total: 1

-Serious Findings: 1

1. Contractor employees did not hand-dig or vacuum excavate a known buried 2.5” sewer force main prior to excavating, resulting in damage to the force main and sewage leaking into the excavation. (After the first strike) SCWI-8715-0008 section 9.25.1

-Less than Serious Findings: 0

Mishaps / Close Calls: 2

-Mishap

1. An employee who operates a welder and a grinder believes a small piece of metal entered the eye after wiping sweat off the forehead with the shirt sleeve. The employee finished the shift and went home. The employee returned to work the following day with a complaint of eye irritation. The employee was taken to the SSC Clinic for First Aid treatment only but, was referred to an Ophthalmologist. The Ophthalmologist flushed the eye and issued a prescription, making this an OSHA Recordable or NASA Type D Mishap. The worker has returned to work and the contractor is investigating this incident.

-Close Call

1. While excavating to install the new potable water system near the intersection of Leonard Kimble Road and Old Highway 43, an unknown buried utility was struck. The line was identified as a 2.5" sewer force main. A few hours later, after the excavation resumed, the line was struck and damaged again. This time, the line had substantial leakage prior to being secured and repaired.

Construction Safety Findings: 16-20 June 2014

Findings Total: 2

-Serious Findings: 0

-Less than Serious Findings: 2

1. Job-made 1/2 inch diameter wire rope sling used for lifting an I-beam was found with improper placement of cable clamps. The finding was closed/corrected on the spot with removal, re-installation, spacing and torqueing. A safety stand-down was held to address cable clamp placement with workers (see photo). 29CFR1926.251 (c)(5)(i)
2. A subcontracted worker found within the designated construction zone not wearing safety glasses or safety shoes/boots. The worker was wearing tennis shoes. SCWI-8715-0008 (9.3)

Mishaps / Close Calls: 1

-Close Call:

1. A worker performing abatement activities in the Battleship area attempted to push a small beam out of the way with their foot. The beam rolled over and fell on top of the worker's foot, just above the steel toe of the boot, injuring the worker. The worker was brought to the SSC Clinic for observation and was administered First Aid only for a bruised boot.

Construction Safety Findings: 16-20 June 2014

1926.251(c)(5) When U-bolt wire rope clips are used to form eyes, Table H–2 shall be used to determine the number and spacing of clips.

TABLE H - 2. -- NUMBER AND SPACING OF U-BOLT WIRE ROPE CLIPS

Improved plow steel, rope diameter (inches)	Number of clips		Minimum spacing (inches)
	Drop forged	Other material	
1/2	3	4	3
5/8	3	4	3 3/4
3/4	4	5	4 1/2
7/8	4	5	5 1/4
1	5	6	6
1 1/8	6	6	6 3/4
1 1/4	6	7	7 1/2
1 3/8	7	7	8 1/4
1 1/2	7	8	9

Construction Safety Findings: 21-27 June 2014

Findings Total: 0

Mishaps / Close Calls: 2

-Close Calls:

1. A subcontractor's employee was operating an excavator in front of Building 1100 digging a trench to install the new potable water line. The excavator bucket contacted and damaged a buried concrete pipe. The pipe was approximately six (6) feet deep and determined to be an eight (8) inch gravity sewer line. Work was immediately stopped and the line was repaired. Due to this taking place on a Saturday and no one being in the building, no sewage leaked into the trench. This line was properly marked and identified on the drawings. However, the drawings indicated a depth of ten (10) feet. The contractor did not verify that depth prior to digging.
2. A subcontractor's dump truck was leaving the construction site and hit a traffic control bollard, damaging the bollard. No damage to the dump truck.

Construction Safety Findings: 21-27 June 2014

Construction Safety Findings: 21-27 June 2014

Kosturock, Daryl (SSC-BASTIONTECH)[Bastion Technologies, Inc.]

From:	Douglas, Freddie (SSC-QA00)
Sent:	Thursday, June 26, 2014 11:52 AM
To:	Rice, Amy M. (SSC-QA10); Rewis, Mike J. (SSC-QA10); SOUTHERS, ROBERT L. (SSC-QA10); Martin, Steven M. (SSC-BASTIONTECH)[Bastion Technologies, Inc.]; Kosturock, Daryl (SSC-BASTIONTECH)[Bastion Technologies, Inc.]; COOPER, KATHY A. (SSC-QA10); Dubuisson, Donna A. (SSC-QA10)
Cc:	ZERINGUE, CHRISTINA P. (SSC-QA20); TREGRE, GRANT M. (SSC-QA00); Jones, Marguerite (Maggie) (SSC-QA00); Woolridge, Stacie S. (SSC-LMATA)[LMATA Government Services LLC]; WAGNER, MELISSA R. (SSC-QA00)
Subject:	Construction Safety performance Assessment

All,
Given the conversation at this month's SMR regarding the upward trend in construction mishaps, I have ask Christina Zeringue to investigate and assess the relevant factors contributing to the condition as well as all type D incidents (for periods she specifies) with a completion prior to the next SMR or by 31 July 2014. She will be defining her process and the associated required data. Please support her requests for information, data, access, etc. in a timely manner for the completion of this action. IF you have any questions, please feel free to contact me.

Stacie – please add to the action item list.

Thanks,

Freddie Douglas, III
Director,
Safety and Mission Assurance Directorate
Stennis Space Center
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Construction Safety Refresher

SCWI-8715-0008 Construction Safety and Health Program

•ROLES AND RESPONSIBILITIES

•4.1 NASA SSC Construction Contractors

1. Construction contractors at SSC shall:
2. Understand and comply with the requirements and expectations of the NASA SSC Construction Safety and Health Program, which is required under NASA SSC SPR 8715.1.
3. Understand the construction related elements of the Occupational Safety and Health Administration (OSHA) Voluntary Protection Program (VPP).
4. Maintain safety and health programs to a level where OSHA compliance responsibilities are achieved and not compromised.
5. Provide the NASA SSC Safety and Mission Assurance (SMA) Directorate all required documentation requested in the NASA SSC Contract Specifications.
6. Address safety and health findings in a timely manner and meet target dates set by NASA SSC.
7. 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.
8. Manage all subcontractors in a manner consistent with this NASA SSC SCWI.
9. Implement the safety and health provisions of this specification so that:
    a. All employees involved in a project go home as healthy as they arrived.
    b. The construction work site is free of recognizable hazards as well as OSHA and NASA violations. In cases of conflicting statements between the OSHA and NASA Standards, the contractor shall follow the more stringent of the conflicting statements.
    c. Mishaps are minimized to the greatest extent possible with the ultimate goal of zero.

Construction Safety Refresher

SCWI-8715-0008 Construction Safety and Health Program

•**MANAGEMENT AND OVERSIGHT**

•SPR 8715.1 provides the management and oversight structure for contracts issued to contractors performing work at NASA SSC. This structure defines the role of the Contracting Officer (CO), COR, SMA, and the contractor.

•**6.1 Management**

1. NASA SSC, onsite prime contractors, and construction contractors shall manage their contractors so that safety and health accountability is maintained and contractor employees are provided the same level of protection as NASA civil service employees.
2. Construction contractors shall use this SCWI as the primary document to reference NASA SSC requirements. Depending upon the type of contract, construction contractors may also be asked to reference other NASA SSC safety and health work instructions that are applicable to their type of work.
3. All contractors shall understand the OSHA requirements applicable to the work being performed and all OSHA regulatory requirements, as well as, performance standards that are incorporated by reference, applicable to their business.
4. Where NASA SSC takes a more stringent position on compliance or safety and health practice, the contractor is expected to achieve equivalent compliance to remain in good standing.
5. The SMA Directorate shall assign individuals to be responsible for construction safety. NASA SSC SMA may utilize the services of outside consultants to assist in auditing and program development.
6. Contractors shall provide a management and oversight process to all of their subcontractors so that regulatory compliance is achieved and injury/illness performance goals are exceeded.
7. At all times during performance of a construction contract and until the work is completed and accepted, the Contractor shall assign and have on the worksite a competent superintendent who is satisfactory to the Contracting Officer and has authority to act for the Contractor.

Construction Safety Refresher

SCWI-8715-0008 Construction Safety and Health Program

•MANAGEMENT AND OVERSIGHT

•6.6.2 Preparatory Meetings

1. The contractor shall meet with their subcontractors prior to the project start date to discuss safety and health plans/procedures and implementation. Discussions will include hazard assessments, AHA, procedures, training, permits, emergencies, and other requirements.
2. Occasionally either party may call subsequent conferences/meetings to confirm mutual understandings, to discuss changes to the contractor's safety and health plans, and/or to address deficiencies in the safety and health program or procedures, any of which require corrective action. Minutes of these meetings and action plans shall be recorded. All Safety and Health Program changes need to be submitted in writing using the NASA SSC transmittal process for acceptance by the SSC SMA Construction Safety Manager.

•6.6.3 Monthly Meetings

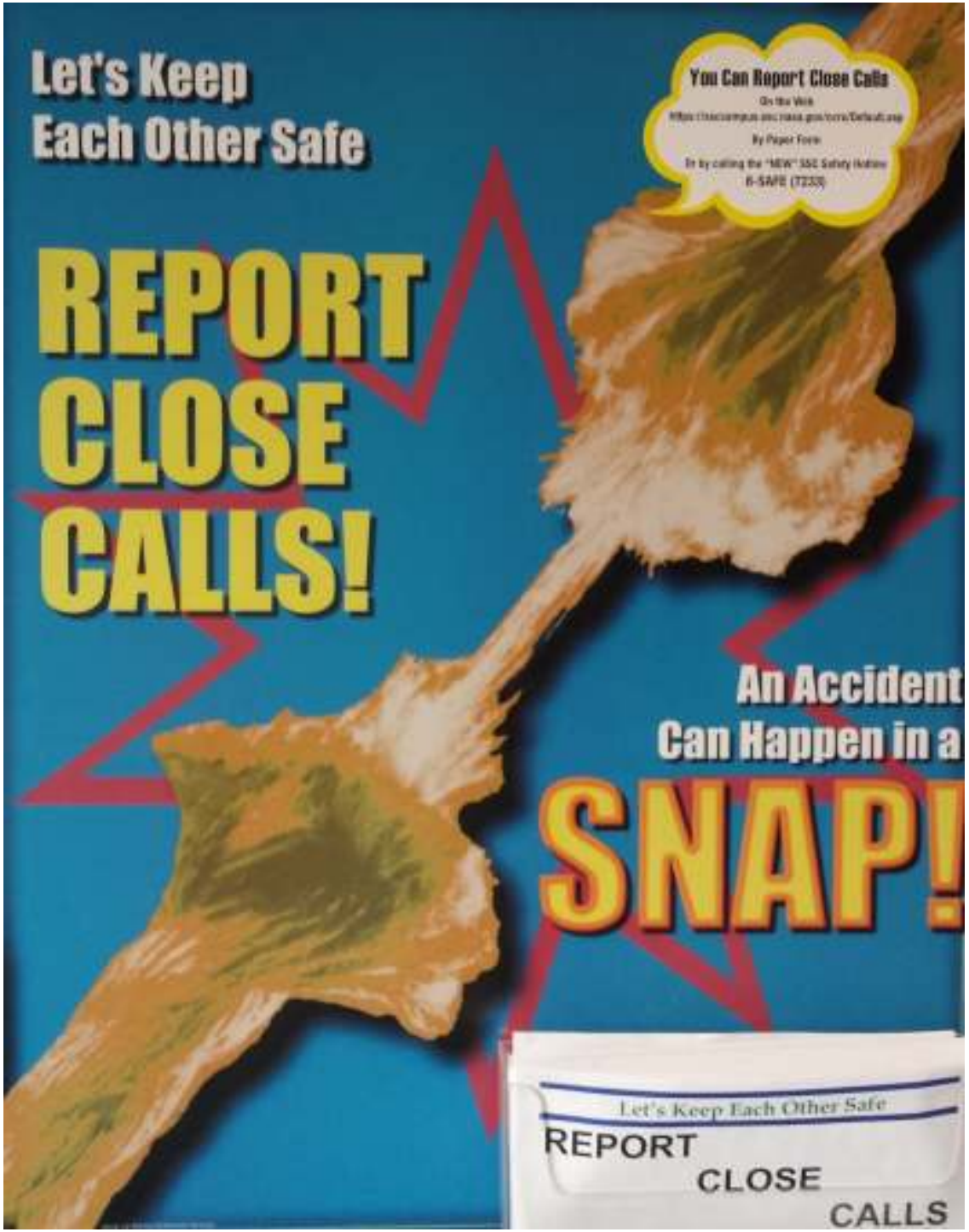
1. The project superintendent or designated safety representative is required to attend a mandatory safety meeting held on the first Thursday of each month. These meetings will be used to address various safety topics.
2. The project superintendent or designated safety representative shall ensure attendance is documented.

New Safety Hotline to Report Close Calls

Close calls are important because they allow individuals an opportunity to make a difference. If you see something that is unsafe, take the time to report a close call. Reporting close calls, protect you and your coworkers. To make the close call process easier, the NASA Safety and Mission Assurance Directorate has created a Safety Hotline that provides individuals the ability to file a close call with a simple phone call. The number to the Safety Hotline is **228-688-SAFE (7233)**. Existing close call forms and posters are being updated to reflect this information.

There are three ways to report a close call:
You can file close calls on the web:
1) https://ssccampus.ssc.nasa.gov/ccrs/Default.asp
2) Fill out a close call form which is located in one of the close call posters in many of the buildings at SSC.
3) Pick up the phone and call **228-688-SAFE (7233)** and follow the phone prompts.

**All close call information is kept confidential.*



Construction Safety

Questions?

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

Construction Safety

Have a Safe month!

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