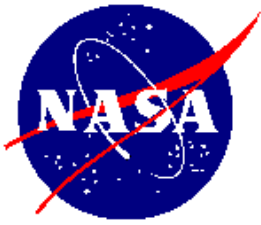




# SSC Construction Inspection Safety Findings/Stats

# October 2010



## Contact Info:

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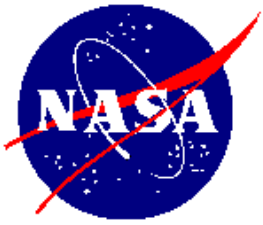
228-688-3701 fax

John Rhodes

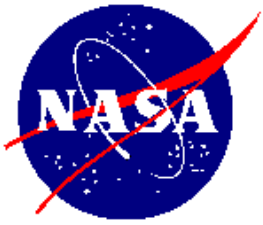
[john.d.rhodes-1@nasa.gov](mailto:john.d.rhodes-1@nasa.gov)

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# SSC Construction Pictures



Example of correct LOTO Procedures at building 4995





## Mission Success Starts With Safety

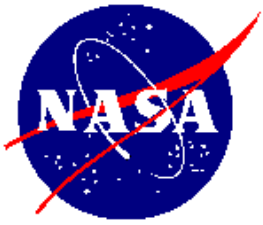
Sheet metal behind the garbage bag used to collect water runoff from core drilling which was in response to a close call due to water intrusion into a de-energized electrical panel located at building 4995 mechanical room.





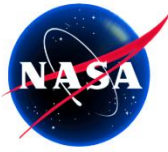
Lift of LH Tank, the brackets are being put into place while the tank is suspended





## Mission Success Starts With Safety



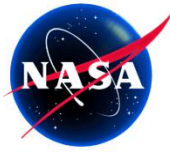


# VPP Final Stages

“Shooting for the STAR”

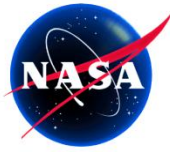




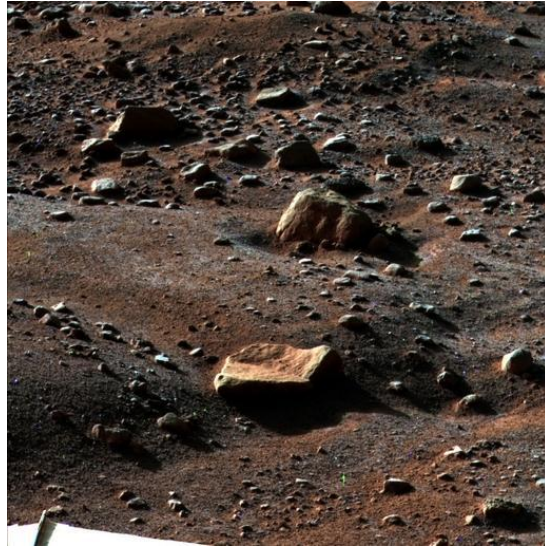
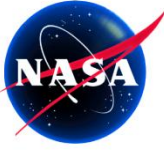


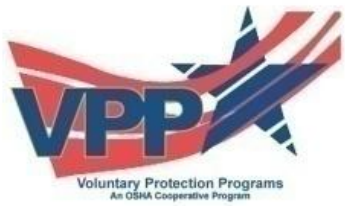
# Agenda

1. Introduction
2. What is VPP?
3. What can you expect during a VPP audit?
4. Preparation Pointers
5. VPP and Me
6. Questions

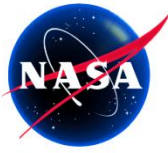


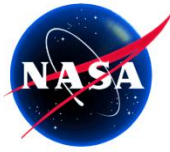
# 1. Introduction



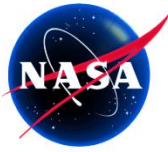


# Safety and Health Success Starts in the Heart!





## 2. What is VPP?



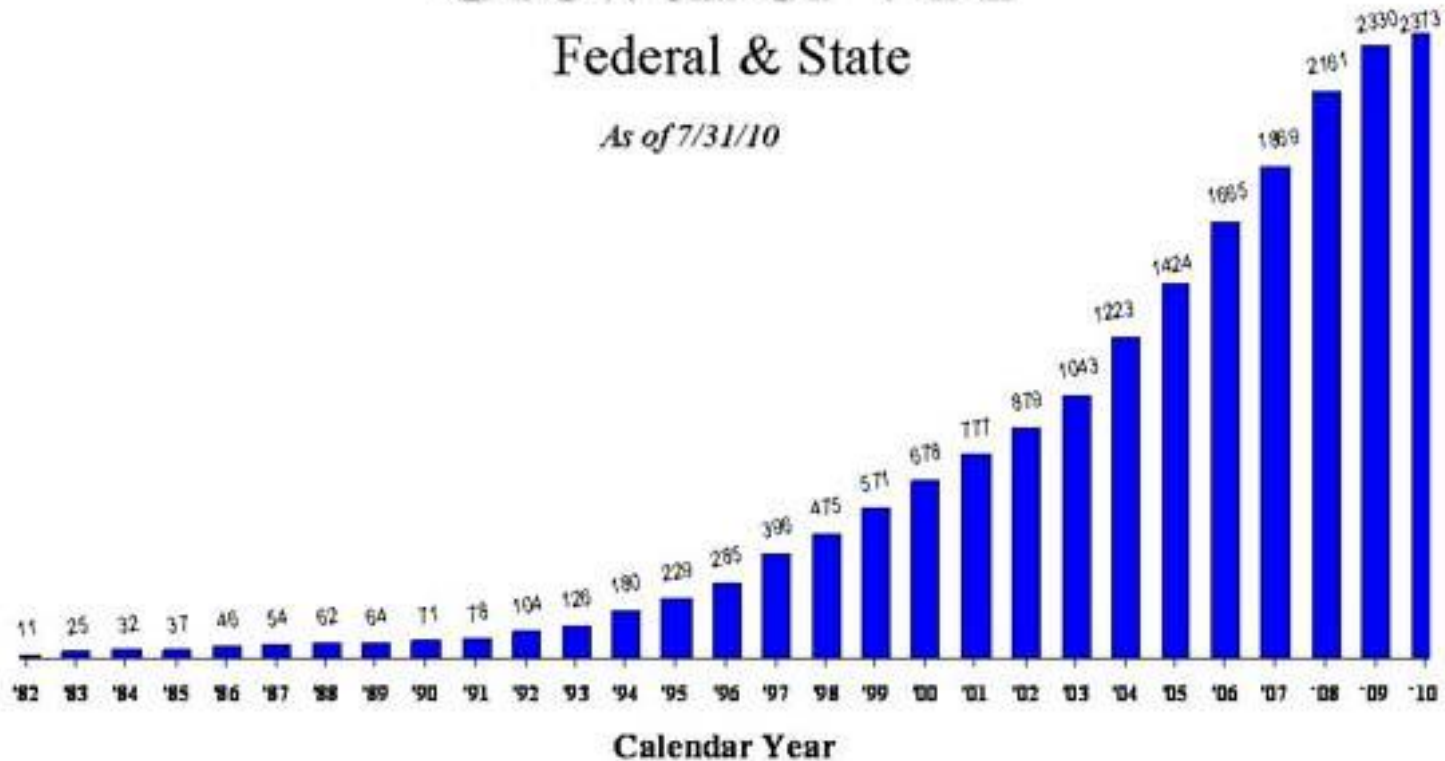
# What is VPP?

1. Recognition program
2. Safety and Health Management System
3. Partnership with OSHA
4. Employee owned safety and health

# Growth of VPP

## Federal & State

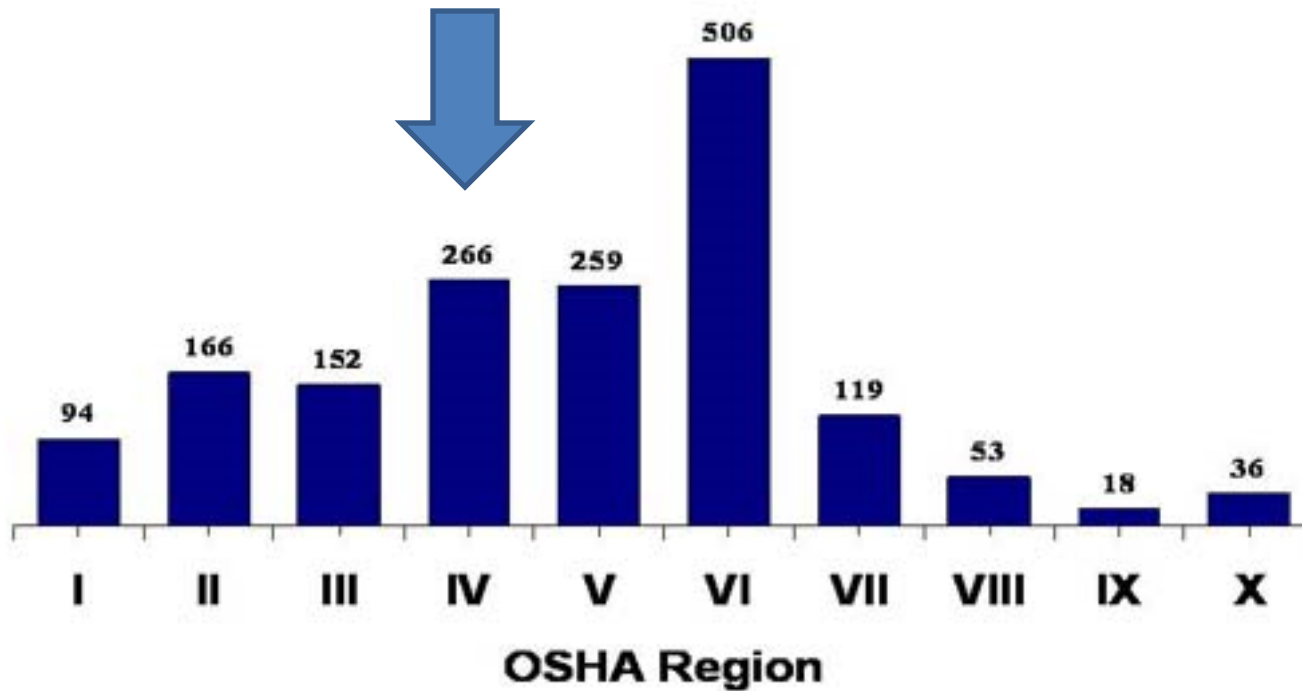
*As of 7/31/10*



Source: OSHA, Office of Partnerships & Recognition

# VPP Sites By Region

Federal Only  
*As of 7/31/10*



Source: OSHA, Office of Partnerships & Recognition

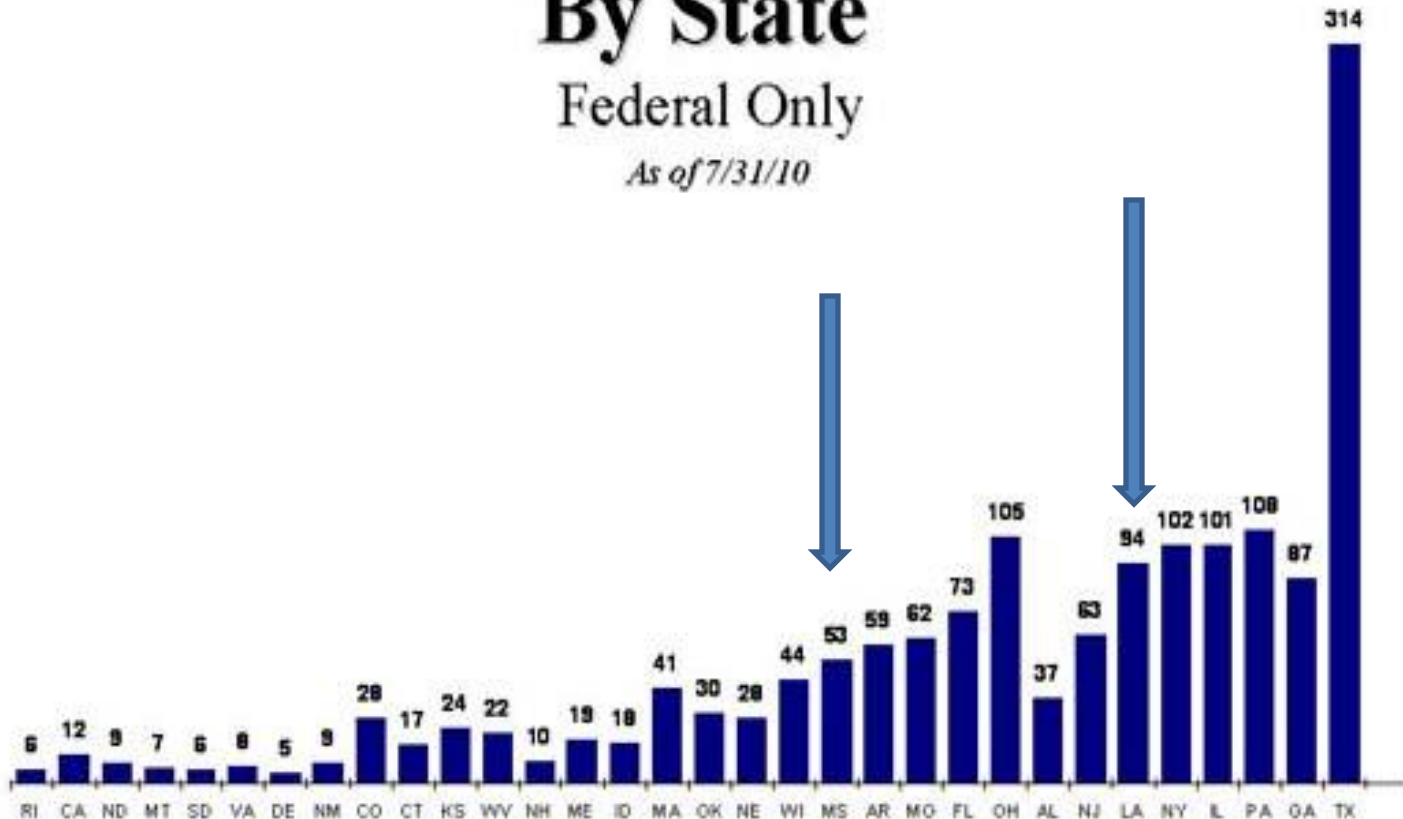


# Distribution Of VPP Sites

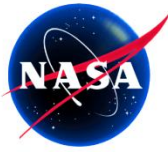
## By State

Federal Only

*As of 7/31/10*



Source: OSHA, Office of Partnerships & Recognition

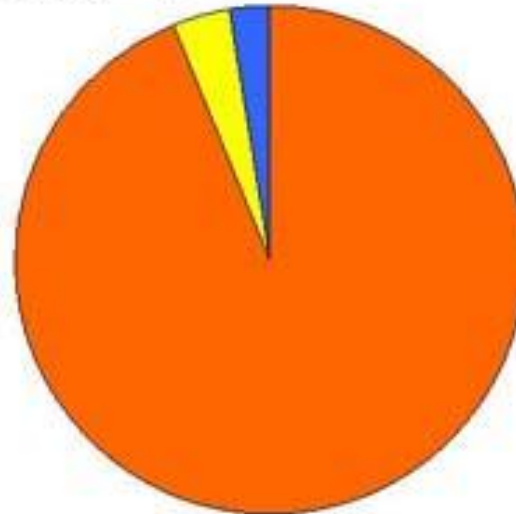


# Current VPP Participants

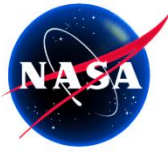
Federal Only

*As of 7/31/10*

Star Demo - 60 40- Merit

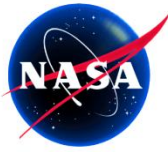


Star - 1569

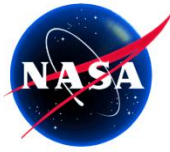


# Current NASA VPP Sites

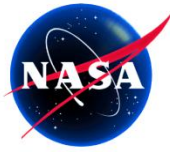
1. Johnson Space Center - Houston
2. Kennedy Space Center - Florida
3. Langley Space Center - Virginia
4. AMES Research Center - California
5. Dryden Flight Research Center – California
6. Stennis Space Center – Mississippi – “Shootin for one”



VPP Recognition is also  
available for Mobile  
Workforces. See  
[www.osha.gov/vpp](http://www.osha.gov/vpp)



# 3. What can you expect?



# What can you expect?

## 1. Questions

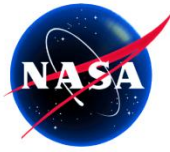
### Tips:

- Enthusiasm, intensity about safety, health and VPP
- Phrase answers in terms of being an employee and from a personal perspective

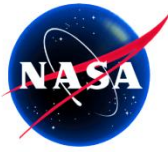
## 2. A worksite inspection formally or informally

### Tips:

- Make sure OSHA compliance is achieved
- Work safely



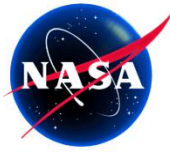
# 4. Preparation Pointers



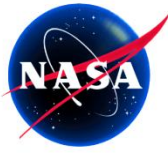
# Preparation Pointers

1. Learn and articulate the answer to “What is VPP?”
2. Know the answers to the big hitter questions on the subject of: Emergency Response and Evacuation, Hazard Communication and MSDS sheets and Industrial Hygiene (chemical exposures and monitoring)
3. Where all PPE required, wear it properly, make sure it is clean, and pick up any PPE that is lying around or discarded.
4. Verify all Machine Guards in place because...Injury Potential, Law, Audit Finding
5. Remember facts about the SSC safety and health orientation





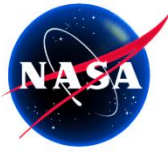
# 5. VPP and Me



We only have four weeks till the audit

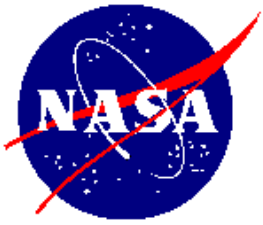
Which includes:

1. Making sure you are ready
2. Checking each area where OSHA will be walking to ensure hazards have been eliminated
3. Working safely!



**VPP**

**6. Questions?**



# The answer to the “How fast can an alligator run” question:

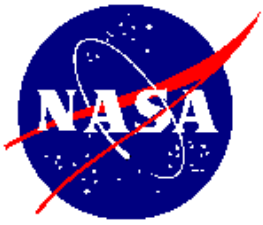


Much like the cheetah, the alligato-r is an incredibly fast runner. Perhaps you've seen one rise up on its long, muscular legs and sprint 500 yards (457 meters) across a wide-open field after fleeing prey.

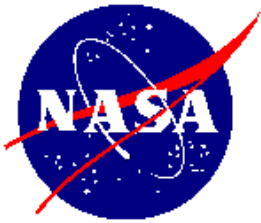
No? You've never witnessed such a thing? What you've probably witnessed is somethi-ng like this: You're standing by a lagoon, checking out a pelican, when you notice two small bumps that protrude from the water. After you take note of the "Don't Feed the Alligators" sign, you put two and two together and decide those bumps are the eyes of said creature lazily floating in the lagoon. You're frightened for a moment, but then you remember the classic adage: You can escape an alligator if you run in a zigzag. And this brings you comfort.

But should it? This saying, which is so old and so widespread that it's virtually impossible to determine where or why it was ever started, implies a couple of things: One, it implies that an alligator is likely to chase you a long distance on land. Two, it implies that alligators can run faster than humans -- at least when they're running in a straight line.

The truth is, although alligators are frighteningly quick, they're not cheetah fast and they don't like to run long distances. It's very rare for an alligator to chase a human on dry land. And the average human could easily outrun an alligator, zigzagging or not -- it tops out at a speed of around 11 miles per hour (18 kph), and it can't maintain that speed for very long [source: [San Diego Zoo](#)].



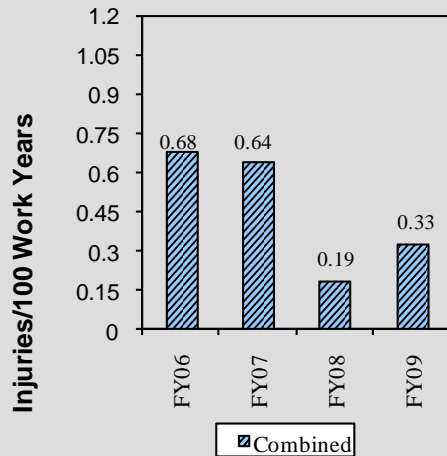
# Construction Metrics



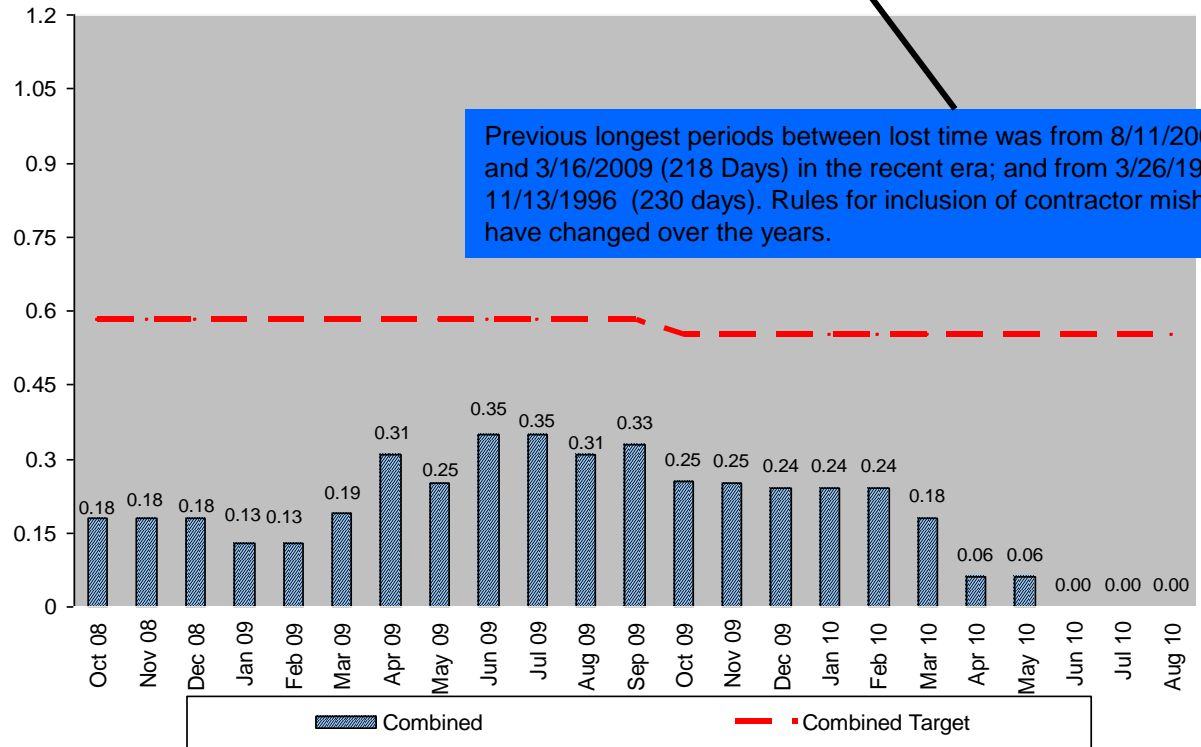
# SSC Lost Time Injury Rate (LTIR)

Longest Period of Time Between Lost Time Cases 442 days  
 LTIR (FY 10) Targets\* - Civil Service & Contractor < .55  
 NAICS Industry Code - LTIR (Testing Laboratories) = .3

Annual History

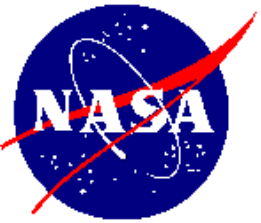


Injuries/100 Work Years



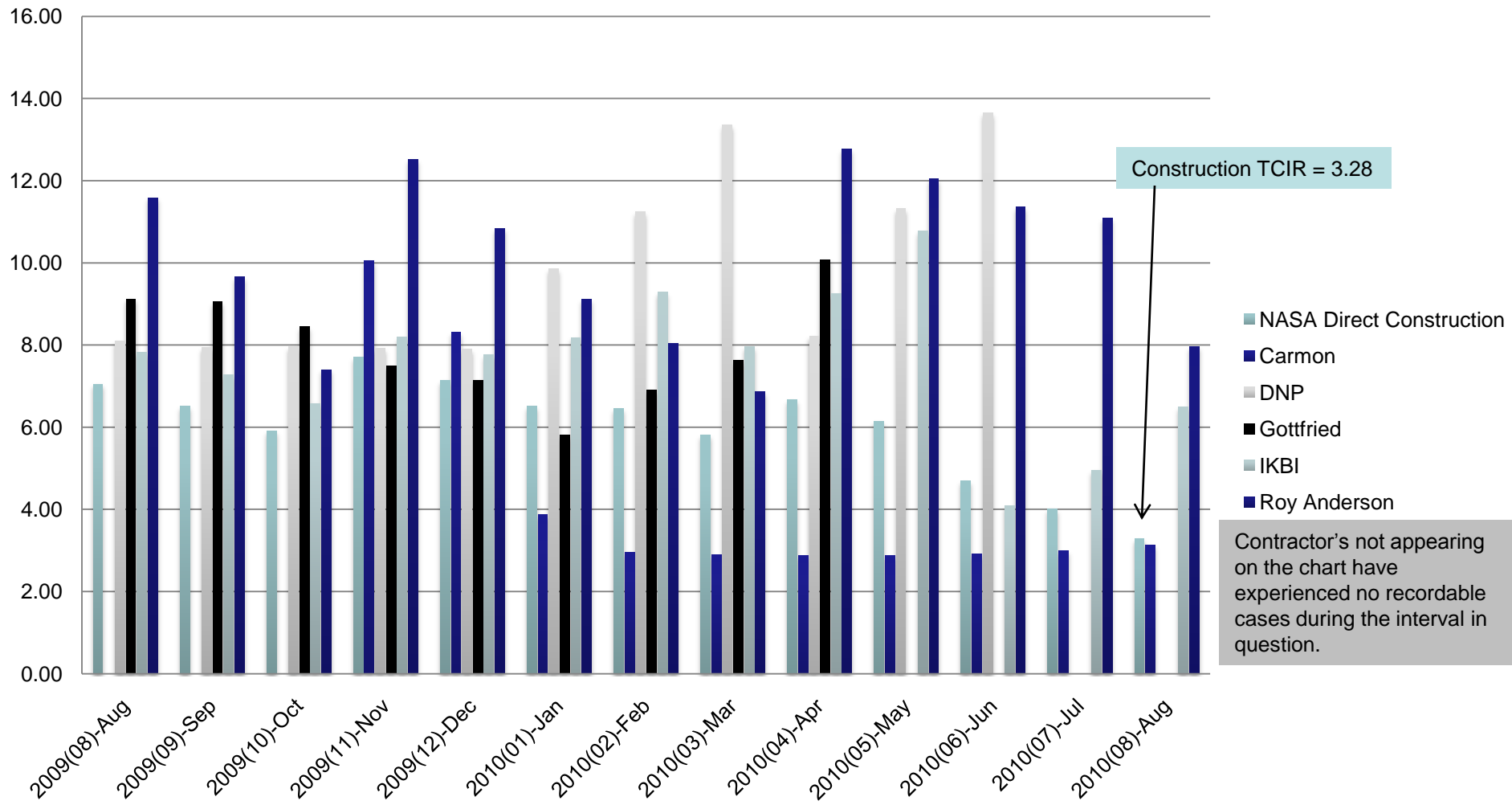
Previous longest periods between lost time was from 8/11/2008 and 3/16/2009 (218 Days) in the recent era; and from 3/26/1996 to 11/13/1996 (230 days). Rules for inclusion of contractor mishaps have changed over the years.

\*SSC's goal is a 5% reduction in case rates for lost time injuries and illnesses (LTIR) starting with FY 07, continuing annually regardless of outcome

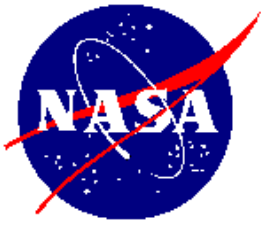


# Construction Safety Data: IRIS Data - Total Case Incidence Rate TCIR

NAICS Industry Code (Testing Laboratories) TCIR = 1.6  
NAICS Industry Code (Construction) TCIR = 4.7



Contractor's not appearing on the chart have experienced no recordable cases during the interval in question.



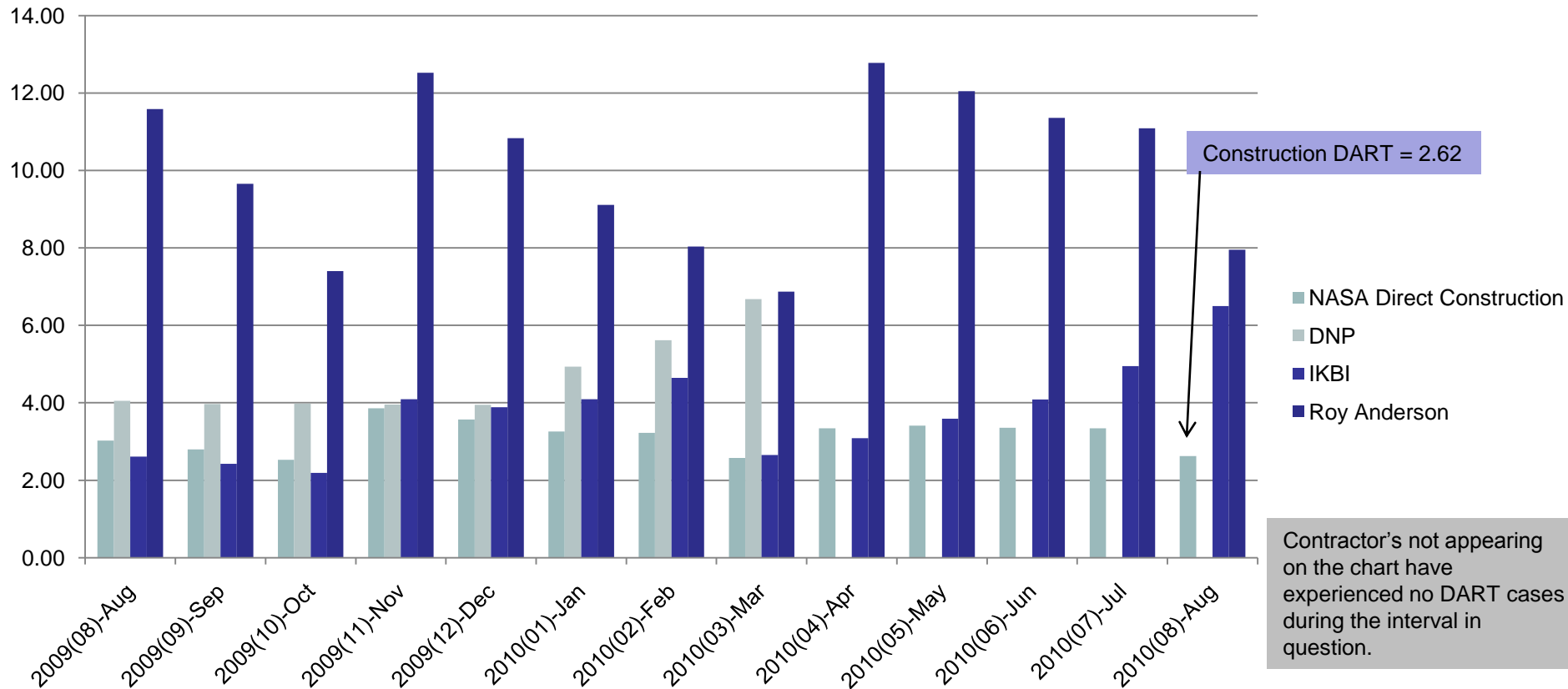
# SSC Days Away, Restricted Duty, or Transferred Cases Incident Rate (DART) – Type C

(FY 10) Targets\* - Civil Service & Contractor - Combined < 0.81

NAICS Industry Code (Testing Laboratories) DART = .9

NAICS Industry Code (Construction) DART = 2.5

*Zero or down is good*

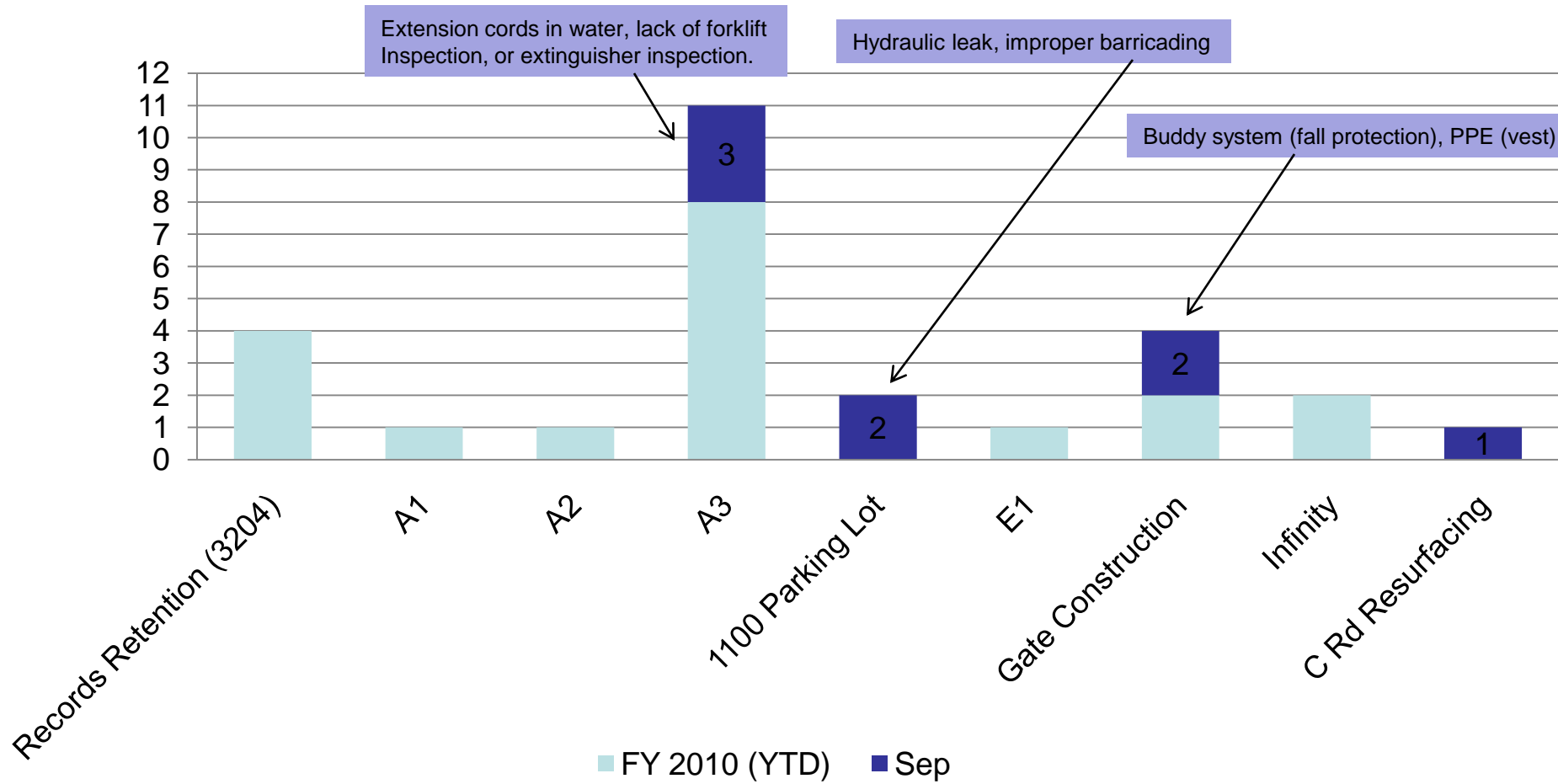


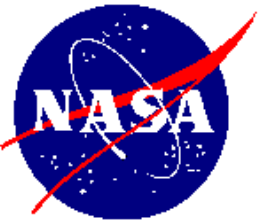
\*SSC's goal is a 5% reduction in case rates for days away/restricted/transferred injuries and illnesses (DART) starting with FY 07, continuing annually regardless of outcome.





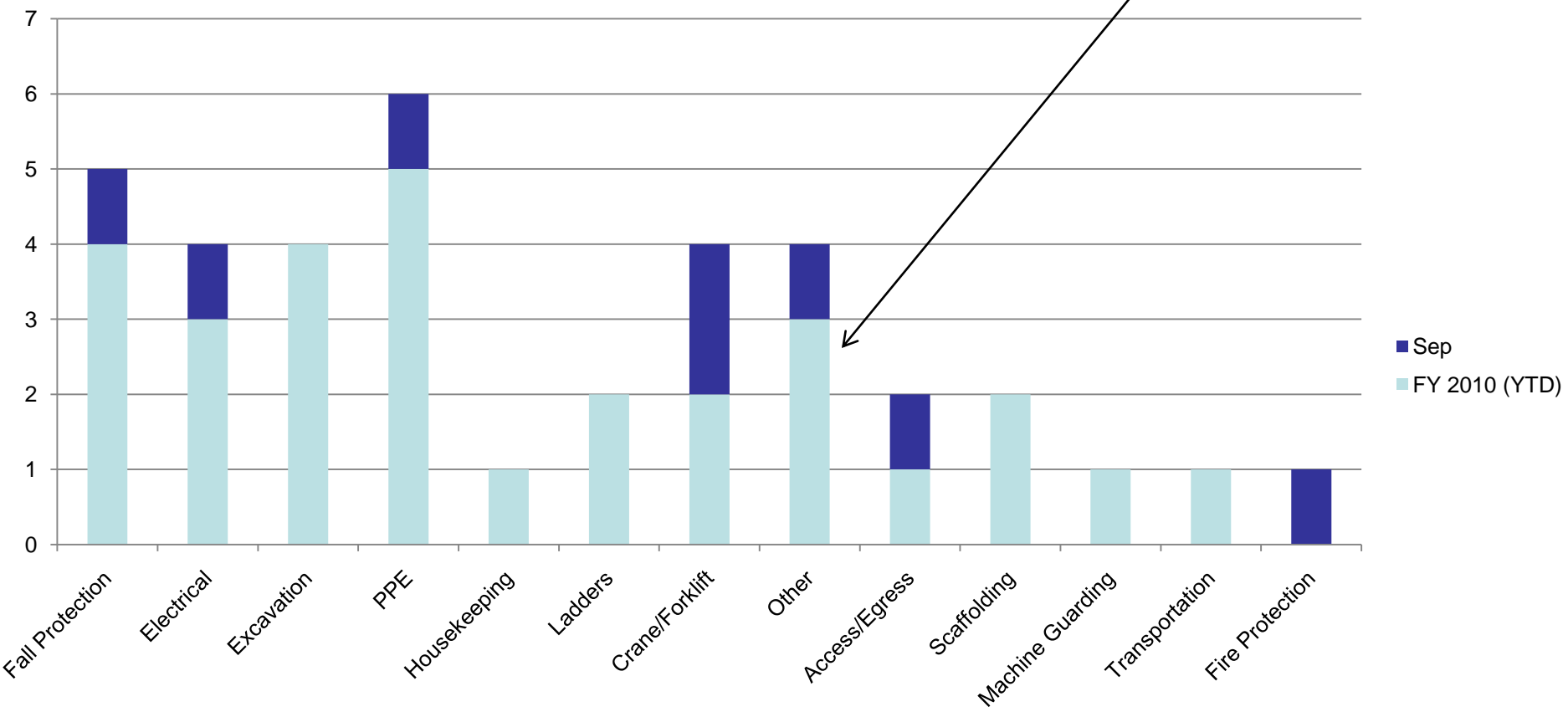
# Construction Safety Data: Construction Site Findings

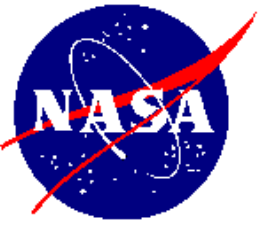




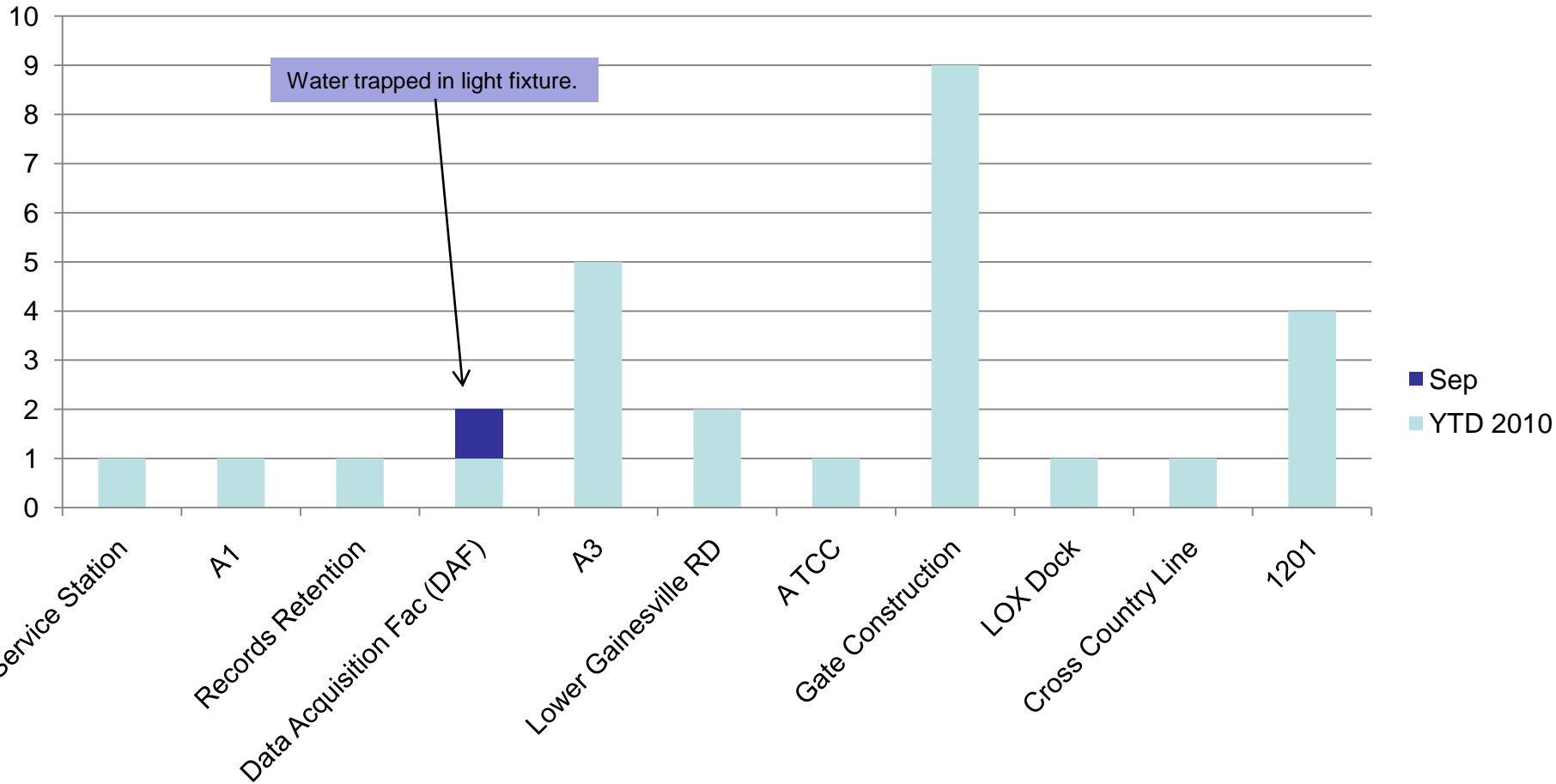
# Construction Safety Data: Construction Site Findings

Contractors failed to get the site specific safety orientation, missed the monthly construction meeting, using a vest as a traffic flag.

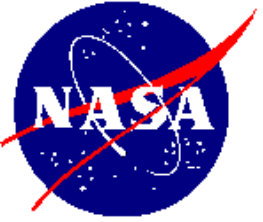




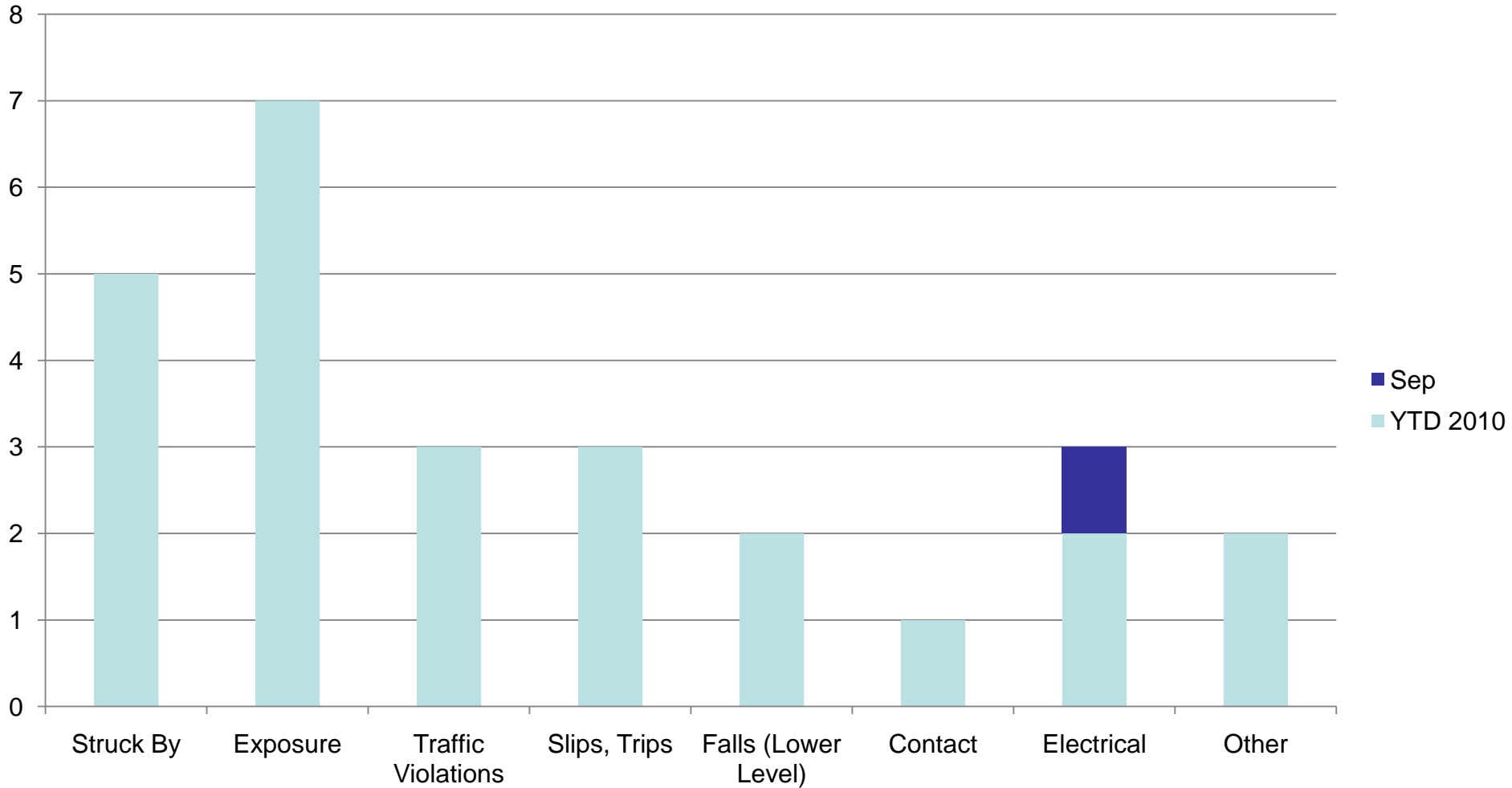
# Construction Safety Data: Construction Site Close Calls (CCRS)

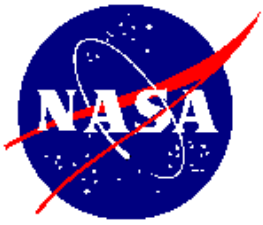


IRIS Close Calls include events with minor equipment damage < \$1000, but with the potential to cause a mishap; and/or, an injury requiring first aid but with greater potential for harm. CCRS close calls are those close calls not meeting these aforementioned criteria.



# Construction Safety Data: Construction Site Close Calls (CCRS)



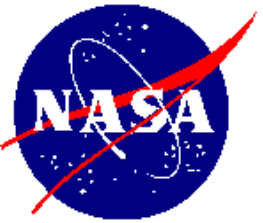


# Backup



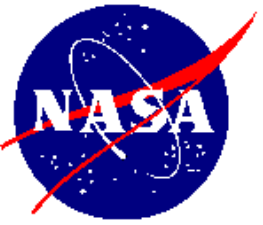
# Construction Safety Findings: Incident Information Reporting System (IRIS) Cases

IRIS Case Number	October	Organization	Incident Description	30 Day Update	Est Comp Date	Closed	Type	Med Case #
S-2009-289-00003	10-09-09	IKBI	Heat Exaustion	Oct 26	16-Nov	Closed	FA	C-2009-289-00003
S-2009-315-00001	11-09-09	Carmon Const	Foreign body in Left eye	Nov 24	24-Nov	Closed	D	C-2009-314-00002
S-2009-310-00005	11-02-09	IKBI	Lower back strain moving spider basket (REST)	Nov 16			C	C-2009-308-00008
S-2009-308-00005	11-03-09	Roy Anderson	Shoulder injury moving form (REST)	Nov 17			C	C-2009-314-00004
S-2009-310-00012	11-05-09	Gottfried	Waste water line damage	Nov 20	29-Mar	Closed	CC	
S-2009-344-00002	12-09-09	IKBI	Broken Two-Block chain	Dec 23	25-Jan	Closed	CC	
S-2009-344-00004	12-09-09	McDonnel Group	Chest Pains / Limb Numbness	Dec 23	18-Mar	Closed	CC	C-2009-344-00004
S-2010-014-00005	01-13-10	South Gulf Inc	2" air line coupling to a 25 ton hoist separated	Jan 14	22-Jan	Closed	CC	
S-2010-029-00008	01-26-10	Roy Anderson	Articulating lift boom sensor failure	Jan 29	18-Mar	Closed	CC	
S-2010-036-00005	01-29-10	Roy Anderson	Left shoulder sprain while welding pipe	Feb 5			FA	
S-2010-047-00005	02-08-10	Can't Be Beat	Strong chemical odor detected while digging	Feb 16	18-Mar	Closed	CC	
S-2010-047-00006	02-11-10	DC General	Water line strike	Feb 16	18-Mar	Closed	CC	
S-2010-063-00017	02-25-10	DC General	Improperly marked telephone line strike	Mar 04	27-May	Closed	CC	
S-2010-071-00006	03-11-10	Can't Be Beat	Ground cable strike while augering for GH supports	Mar 10	18-Mar	Closed	CC	
S-2010-083-00008	03-23-10	DC General	Mini excavator struck phone/power utility	Mar 23	30-Mar	Closed	CC	
S-2010-088-00007	03-25-10	Roy Anderson	Insect bite to right hand	Mar 29	13-Apr	Closed	FA	C-2010-084-00002
S-2010-098-00004	04-07-10	Roy Anderson	Employee lifted and felt pain in right shoulder (REST)	Apr 27			C	C-2010-106-00001
S-2010-118-00002	04-27-10	Roy Anderson	Right elbow strain while moving pipe (REST)	Apr 28			C	C-2010-117-00007
S-2010-144-00004	05-20-10	Can't Be Beat	Damage to reclamation line by augering equipment	May 20	25-May	Closed	CC	
S-2010-190-00005	07-8-10	Roy Anderson	Gravel truck driver struck low hanging electrical wire	Jul 8			CC	
S-2010-208-00008	07-17-10	Trans Gulf	Contractor struck an unidentified pipe/service	Jul 17			CC	



# Construction Safety Findings: Close Call Reporting System (CCRS) Cases

Date-Time Submitted	Reviewed Incident Description	Event Type	Location
10/13/2009 12:44	Workers are using a large crane to remove the canopy from the old gas station pumps. Sparks are flying from a worker apparently cutting the canopy. The service station is still open. There are people entering/exiting the building while this work is in progress. (Witnessed by several people outside of Building 1110)	Struck By	NEX Service Station 3219
10/26/2009 9:43	While performing a walk down of the A1 test stand for the 30-day flame permit with a fire fighter, I found workers with Construction Steel Inc. working off of scaffolding in a construction area without wearing safety glasses, a worker climbing up the scaffold using the cross bracing, the worker did not use the ladder on the scaffolding to access it, another worker that was standing on the ground/floor was throwing objects from the floor to the workers that was on top of the scaffold. One of the workers that was already working on the scaffold climbed up to the top level which was not fully decked.	Falls (Lower Level)	A1 Construction Site 4120
10/28/2009 11:14	I arrived on jobsite at building 3203 for an atmosphere and flame permit request. Upon arrival, a sub-contractor for NAOO, Cuevas Machine Company was already performing grinding work on the tank inside the high bay area. The workers also had (3) compressed gas cylinders stored in the horizontal position.	Fire Hazard	3203
10/30/2009 8:06	While descending a ladder, a sub-contractor, Advance Controls Concepts "ACCI" attempted to step from the third rung of the ladder onto the floor when he lost his footing with the foot that remained on the ladder. The worker fell to the floor buttocks first and struck the back of his head on the wall. The worker was taken to the SSC Medical Clinic where he received first aid treatment and was return to duty.	Falls (Lower Level)	Records Retention Facility Construction 3204
11/5/2009 15:55	Contractor working on construction area of level 2 of B4995 cut 4 PWR phone lines and a T-1 network Canoga Park line. PWR temporarily repaired line.	Contact	Data Acquisition Facility 4995
12/10/2009 18:27	As I was walking to the area north of the fence I tripped, but did not fall, on a wire that was about 1-1.5 " above the ground. The wire had been left when the section of the fence had been removed. I asked a Fucich welder, who was returning with a GFCI, if anything could be done, he suggested bolt cutters. He asked another worker to get the cutters, I asked him to remove the tripping hazard. When I met with Wayne Martin, Holliday Construction, later that morning I told him about it.	Slips, Trips	A3 Construction Site



# Construction Safety Findings: Close Call Reporting System (CCRS) Cases

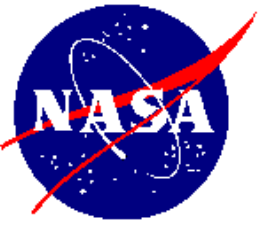
12/11/2009 13:03	As I was driving north on Lower Gainesville Road approaching Endeavour, the road abruptly ended. The contractor had began work on the intersection and cut a trench in the road without putting up any signage. Being caught by surprise I darted into the on coming lane. This could result in a head on collision or something worse. The contractor could have put up some warning signs about the work zone and they could have had some flagmen directing traffic.	Traffic Violations	Lower Gainesville RD
1/11/2010 11:58	Fumes from an adjacent Facility Landlord's contractor's roofing activities entered B901's Engine Room resulting in employee discomfort (i.e. nausea). There were no injuries. Employees immediately evacuated the area until EH&S and facility management personnel gave the all clear.	Exposure	9101
1/27/2010 17:49	While scaffold builders were erecting scaffold on the CSC slab, one of the workers' hammer fell when he went to return back to its holder on his pouch. It fell ~160 ft straight down inside the barricaded work area. No workers were in the barricaded area. There were no injuries or damage to equipment.	Struck By	A3 Construction Site
2/4/2010 8:23	Contractors core drilling holes in the side of the building allowed water to leak into the building and migrate into the tunnel.	Exposure	A Test Control Center 4110
3/12/2010 9:48	Contractors were parked on both sides of road and looking in the grassy area. One guy had pulled his truck up, got out and walked south across the road directly in front of me without looking. If I had not have been paying attention and have had it happen before I would have struck the guy at 50mph. He did not even look where he was going.	Pedestrian	8301
3/21/2010 6:08	Do to the construction going on at the Northgate there needs to be more lighting. When the temp. guard shack was installed Security was told that the door of the shack could not face the traffic lane {the guards could not exit toward the traffic for their safety.} However I guess it's ok for the gusrds to work with no proper lighting. Also the cones lining the 14" deep hole aren't reflectorized or lit up with light carts.	Struck By	North Gate Construction
5/20/2010 8:10	While coming in the South Gate this morning, I noticed that the noise from the road construction is extremely loud. Seems to me that the Guards should be wearing hearing protection.	Exposure	South Gate Construction
5/26/2010 13:30	I noticed that the guards at the South Gate were not wearing PPE yet nearby there is heavy machinery busting up concrete.	Exposure	South Gate Construction





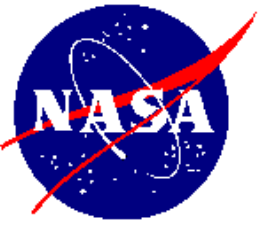
# Construction Safety Findings: Close Call Reporting System (CCRS) Cases

<p>5/27/2010 9:39</p>	<p>Contractors are boring conduit to install new communication lines on Lower Gainesville heading toward the Cypress House. When i showed up the archeologist's on site were in the construction zone not wearing the appropriate PPE (hardhats). On 5/26/10 I advised them of the PPE procedure and they abided by the rules. Today I went to the site and the archeologist was on the construction site again not wearing a hard hat again. i reminded him again of the PPE regulations and asked him to get a hard hat before entering the worksite again. The archeologist could have hit his head on the trackhoe since he was working in close vacinity of the machinery.</p>	<p>Exposure</p>	<p>Lower Gainesville RD</p>
<p>6/1/2010 17:36</p>	<p>Approaching the South Gate this morning, I was surprised by the sudden closure of the left lane, with no warning signs. I was prepared for the construction and already driving slowly, however, the left lane was closed just after coming around the last curve, with no warning, and with barricades and one right arrow sign that blended into the rest of the construction equipment. Luckily, there was no one to my right, as I suddenly had to change lanes. I've seen this on one other occasion, when I was riding with someone else. This could easily cause an accident, from people suddenly stopping and/or changing lanes.</p>	<p>Traffic Violations</p>	<p>South Gate Construction</p>
<p>6/9/2010 9:54</p>	<p>WATERHOSE LAYING ACROSS THE WALKWAY IN FRONT OF FRONT DOORS</p>	<p>Slips, Trips</p>	<p>South Gate Construction</p>
<p>6/11/2010 13:06</p>	<p>Over the last two months, it has become apparent that many people onsite at the A-3 Test Stand are not hearing/understanding the lightning advisories and/or warnings. The possible reasons for these occurrences may be: certain loudspeakers have not been continuously operative; the other speakers are not clearly audible at A-3; the noise at the construction site has been steadily increasing over the past few weeks as more contractors and more equipment have arrived onsite. Workers should vacate the site as quickly as possible during lightning incidents, particularly the work above grade, and seek shelter to avoid being in danger of lightning strikes. Only an effective warning system can accomplish this.</p>	<p>Exposure</p>	<p>A3 Construction Site</p>
<p>6/30/2010 15:48</p>	<p>behind bld 3101 where the ground was dug up there is a piece of plywood that is suppose to "help" make a walkway for SSC employees when exiting through the back of the bld (they dug the ground up and tried to refill in the whole with the dirt, but now the stop is simply holding water) well with all the rain, that piece of plywood is simply 'floating'. a few ppl stepped on it for support and the plywood jetted out from under their feet ALMOST causing said subjects to fall, we complained and someone put rocks under the plywood to help stabilize it- but this still isn't helping.</p>	<p>Slips, Trips</p>	<p>South Gate Construction</p>
<p>7/15/2010 16:03</p>	<p>Contractor who is removing LOX line inadvertantly cut and removed newliy installed conduit for new intercom stations. Unknowingly cutting into any line and not knowing the nature of its contents</p>	<p>Electrical</p>	<p>LOX Dock</p>



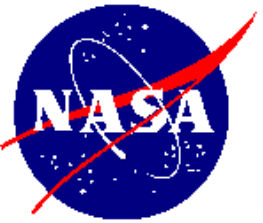
# Construction Safety Findings: Close Call Reporting System (CCRS) Cases

7/21/2010 16:11	Hydrogen cross country line is in close proximity to the roadway and there are no protective structures to protect from vehicular impact. This is also the situation at the roadway inside E2 and also at the roadway going to 4080.	Struck By	Cross Country H2 Line Construction D RD
7/26/2010 9:56	I had stopped at the South Gate security checkpoint in the left lane to show my badge to the security guard. As I recall, orange cones separated the two entrance lanes and blocked the construction area from the roadway except at the concrete pad. At the time, I noticed a number of construction workers who were to my left working on several concrete posts. As I started to move forward past the guard, one of the construction workers stepped down from the concrete pad into the street directly in front of my car. It didn't appear that he looked toward my car before stepping into the road. He was outside the orange cone safety area and standing in the road blocking my path. I stopped my car and waited for him to move; but he did not look in my direction. I eased forward slowly; but he still didn't move. I had to swerve towards the cones on my right to move around him. It appeared to me that he never moved or turned toward my car as I went past him. If I had been distracted, in a hurry, or looking to my right where the row of orange cones blocked me from entering the right lane; I could have surged forward and seriously injured him. I don't drive a small car that could have steered past and missed him. I have a very large, white GMC Yukon with wide mirrors, so I know that he couldn't have missed seeing me, had he looked. I do not know whether he was wearing ear plugs. I did not observe that he was participating in a conversation. He never looked at my car (now to his left) or acknowledged that I was sitting there waiting for him to move from my path so that I could proceed.	Struck By	South Gate Construction
8/4/2010 15:42	From: 12:51-Lightning Warning; 1:38-All Clear; 2:22-Warning; 2:54-All Clear. Sometimes these would come over the "brick" radios and not the PA, sometimes on the PA and not the radio. There was confusion on the construction site and word was not getting into the field. At 2:50 we had some workers in the field and some still in the shelters. When I called the Security desk the attendant said it would not be for a few minutes before he could tell me anything. When I told him I had people in the field and would he tell me what the present conditions were; he said he could not and was short about it. The potential danger was that I had people in the field and I did not know if they were in danger of a lightning strike. People could have gotten hurt or killed. Plus work was disrupted and our alert system credibility was compromised.	Exposure	A3 Construction Site



# Construction Safety Findings: Close Call Reporting System (CCRS) Cases

9/2/2010 16:30	The ceiling in communication room 151 is leaking. There is water trapped inside of the light fixture above network equipment. Lights in fixture are no longer working. Water is also dripping onto the floor creating a slip hazard. Some ceiling and floor tiles are stained because of leak.	Electrical	4995
9/6/2010 0:30	On Monday Sept 6, the B-1104 Boiler rapidly overheated and continued to fire without shutdown with potential for an explosive event. The SSC Fire Dept was informed of the situation by EMCS, whereby, the fire dept immediately responded and shutdown gas service to unit, thereby, shutting the boiler down. The contractor was called out to investigate the malfunction. No further information available.	Exposure	1104



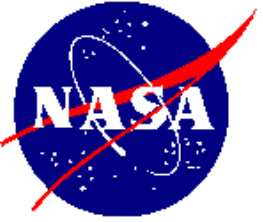
# Construction Safety Data: Construction Site Inspections

Date of report	Category	Area	Finding
23-29 October 2009	Other	BLDG 3204	Several employees attempting to work in poorly illuminated rooms. 29 CFR 1926.26(open)
30 October - 05 November 2009	PPE	A-3	An employee was working in a visible cloud of dust that was generated from cleaning out freshly drilled holes in a concrete slab. The employee took no measures to protect against the health hazards associated with silica dust. 29 CFR 1926.55 Repeat (open)
06-12 November 2009	Fall Protection	A-3	Employees were working from elevated platforms without required safety equipment to complete a fall rescue, as outlined in the contractor's safety plan.
04-10 December 2009	Electrical	BLDG 3204	Contractor installed a temporary light assembly that did not provide protection for the lamps from accidental contact or breakage. 29 CFR 1926.405
11-17 December 2009	Ladders	BLDG 3204	Worker was standing on top of a stepladder with the right foot on the top step and the left foot on the cross bracing on the back of the ladder. 29 CFR 1926.1053(b)(13) and (b)(14).
11-17 December 2009	Other	BLDG 3204	Workers on the construction site without receiving the site specific safety orientation. 29 CFR 1926.21(b)(2).
01-07 January 2010	Cranes	A-3	Damage was found on one leg of the four-legged bridle sling used to lift a personnel platform. 29 CFR 1926.550(g).
29 January-04 February 2010	Fall Protection	A1	Two workers were in an area of level seven where the guard rails were removed without having their personal fall arrest systems properly tied-off. Both workers were exposed to a fall of well over six feet. 29 CFR 1926.501
19-25 March 2010	Excavation	Gate Job	An employee damaged a marked, buried electric line with an excavator. The employee failed to hand dig to positively locate the line. SSC SSTD 8070.0119-MISC (SSC Standard For Dig Permit), section 5.2.3



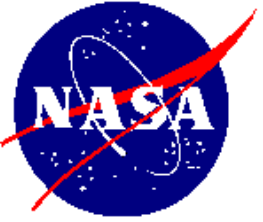
# Construction Safety Data: Construction Site Inspections

30 April-06 May 2010	Scaffolding	A-3	A working platform/scaffold was not being erected per manufacturer requirements. (SSC SCWI 8715.0008 9.28a)
28-04 Jun 2010	PPE	A-3	Employee was drilling holes into steel beams without hearing protection.
28-04 Jun 2010	Electrical	A-3	Contractor using welder outlet unequipped with GFCI protection along with extension cord running
11-17 Jun 2010	Access/Egress	A-3	Contractor took the initiative to construct a safety stairway over the 66" industrial water pipe enabling employees to access both sides without having to climbing over or under.
11-17 Jun 2010	PPE	A-3	Contracted employees were found to be required to have completed medical evaluations before the utilization of vented hood respirators. –OSHA standard 1910.134 (E). The employer shall provide a medical evaluation to determine the employee's ability to use a respirator, before the employee is fit tested or required to use the respirator in the workplace. The employer may discontinue an employee's medical evaluations when the employee is no longer required to use a respirator.
18-24 Jun 2010	Housekeeping	E-1 Flame Trench	Contractor failed to remove combustible scrap and debris from the job site or empty trash receptacles at regular intervals.
18-24 Jun 2010	Other	Gate Job	Contractor failed to attend the mandatory monthly safety meeting at SSC, for the months of May and June, 2010.
12-16 Jul 2010	Excavation	Infinity	The Contractor was excavating a trench that ranged in depth from 5 to 9 feet; the trench was not adequately sloped for the type of soil (which is class C). Ground water has been washing in on the trench causing the sloping to slide in on the trench. The sloping has since been fixed and the trench is being properly maintained. The competent person for the trench has inspected the site. (Next slide depicts picture of site)



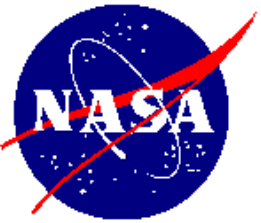
# Construction Safety Data: Construction Site Inspections

19-23 Jul 2010	Excavation	Infinity	<p>Sub-contractor at site had an excavation with many discrepancies; the excavation was on the South side of the building. The discrepancies were discovered during the weekly jobsite audit. All discrepancies have been corrected and the contractor conducted a safety stand-down to discuss working safely in an excavation. (see pictures) The discrepancies were as follows:</p> <ul style="list-style-type: none"> <li>-No ladder was available to workers to enter and exit excavation.</li> <li>-The required number of ladders are not provided (1 per 25 ft)</li> <li>-Sloping was not per standard for type C soil (1 ½ to 1 ratio)</li> <li>-Excavation was not barricaded where it abuts the road</li> <li>-Spoil pile was not set back the required two feet.</li> <li>-Next two slides depict site</li> </ul>
26-30 Jul 2010	Cranes	A2	<p>Contractor at the A-2 Test Stand was operating a Grove 20 ton cranes and was moving a large section of stainless steel pipe across the entrance/exit to the stand; they did not have any flagmen to warn approaching or exiting traffic. NASA Safety notified contractor of requirement; Contractor will hold safety meeting to discuss hazards of lifting pipe across a thoroughfare.</p>
02-06 Aug 2010	PPE	Gate Job	<p>Contractor at South Gate was seen by Safety on two occasions not wearing the proper PPE (safety Glasses), whereupon the Superintendent was notified and took corrective action by removal of offending employee</p>
09-13 Aug 2010	Fall Protection	A-3	<p>A painter working at the A3 test stand was using fall protection. However, in the process, he tied his lanyard to a guardrail and also tied the lanyard back onto itself (which has the potential to induce a side load and or rollout). A meeting was conducted with the painters at the site on the proper use of fall protection and a meeting was scheduled with the entire paint crew on the proper use of fall protection. (serious)</p>
09-13 Aug 2010	Electrical	Gate Job	<p>During an audit of the South Gate a small tear was found in a power cord and the strain relief boot on a drill was found to be at the end of the power cord. These issues were brought to the attention of workers and were corrected on the spot.</p>
09-13 Aug 2010	Excavation	SW 1100 parking Lot	<p>A subcontractor paving the parking lot southwest of building 1100 was using heavy equipment to remove gravel without barricading the site; safety brought the issue to the attention of workers at the site. The site is now barricaded and the contractor over the sub was notified.</p>



# Construction Safety Data: Construction Site Inspections

16-20 Aug 2010	Scaffolding	Gate Job	During an audit of the South Gate, found a Scaffolding which was not erected properly I.e. The retention clips on the cross bracing were not seated properly and one section of cross bracing was not seated to its corresponding pin; notified foreman and findings were corrected on the spot.
16-20 Aug 2010	Machine Guarding	A3	A bench grinder was found to have the tool rest pushed down and was not set to the OSHA required 1/8 of an inch of clearance from the grinding wheel.
16-20 Aug 2010	Transportation	A3	A golf cart was found to have its seat belt broken and jury rigged with a knot as a fix for the discrepancy. This finding is a repeat violation.
16-20 Aug 2010	Fall Protection	A3	The temporary guard rail at level 7 does not have a mid-rail at the North West and South West sides; The sides are barricaded with red danger tape. This issue was reported back on the Aug 02 Slide (see below). (I-Beams were moved to accommodate equipment installation; the beams had guard rails attached; the guardrails left behind from the I-beam removal were not OSHA compliant. Turnbuckles are to be installed by a sub-contractor to bring the guardrails into compliance. Remember if you change a safety system, ensure you bring the system back into compliance.)
23-27Aug 2010	Ladders	Gate Job	During an audit of the North Gate, a sub-contractor was found using a folding stepladder incorrectly; notified the site foreman who then counseled the sub in the correct use of ladders.
23-27Aug 2010	PPE	A3	A3 Contractor was found welding without the proper clothing (i.e. long sleeve fire retardant shirt) and counseled/told to correct this. He was found to repeat this on another occasion was removed from welding activities for the second offense .



# Construction Safety Data: Construction Site Inspections

30Sept-3Aug2010	Access/Egress	1100 Parking Lot	Bastion discovered that Holiday Builders had expanded their work zone into the roadway without the proper barricades and flagman in place, and non construction workers were seen entering in the work zone. Work was stopped until the proper barricades were put into place.
30Sept-3Aug2010	Crane/Forklift	1100 Parking Lot	During an audit of DNP, a caterpillar was discovered to have a hydraulic leak on the backhoe portion of the vehicle. After, the fire department and environmental was notified, the vehicle was fixed and the hydraulic fluid was cleaned up at the worksite.
30Sept-3Aug2010	Electrical	A3	During an audit of the test stand a contractor was found to have run extension cords through standing water north of the Tank farm. The contractor was instructed to use the readily available extension cord trays. (This is a repeat finding.)
30Sept-3Aug2010	Crane/Forklift	A3	Two forklifts at the A3 site with no daily inspection forms present on the vehicle.
6-10Sept2010	Fire Protection	A3	During an audit of the A3 test stand a fire extinguisher was found not having the monthly inspection; safety tagged and inspected the fire extinguisher.
13-17Sept2010	Fall Protection	Gate Job	During an audit of the North gate , a worker was discovered on the canopy roof in fall protection performing electrical work , but was found to be working alone. Work was stopped and the worker counseled on the dangers of working alone.
13-17Sept2010	PPE	Gate Job	During an audit of the South gate it was discovered that a worker starting to work next to roadway was not using a colored vest. The worker was asked to wear a vest, to which he complied.
13-17Sept2010	Other	C Road resurf	An employee, working with the asphalt/road striping crew, was flagging traffic around the road striping area (C Road) using a reflective vest tied to a stick for a traffic flag.