



The INGAA Foundation, Inc.

Impact of Fatigue on Contractor Safety

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The Case for Change - 2015

- 49 CFR 195.446 – Control room management.
- API RP 1168 – Pipeline Control Room Management
- Contractor Safety – Major Project Support – “Sensing It”
 - Quick intervention strategies
 - Toolbox Talks
 - JSA reviews
 - Contractor Audits

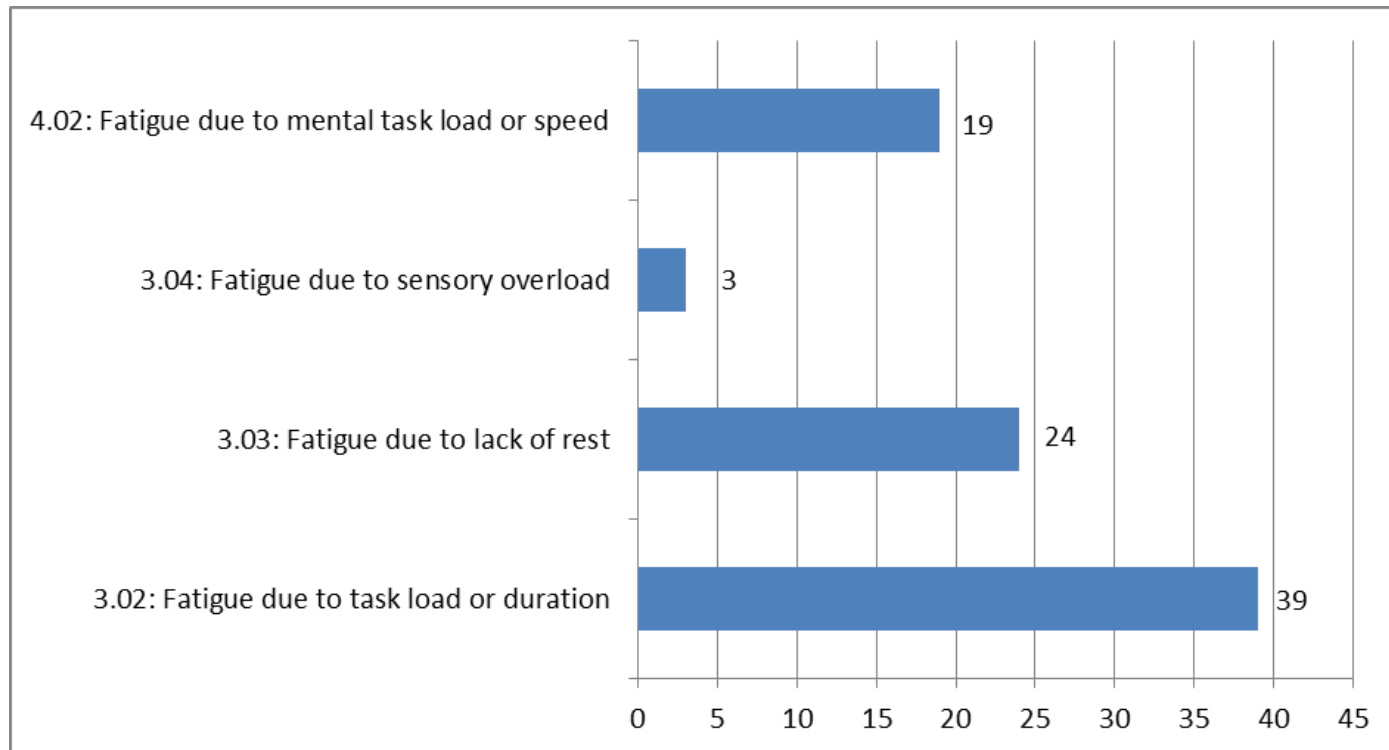


The Case for Change - 2015

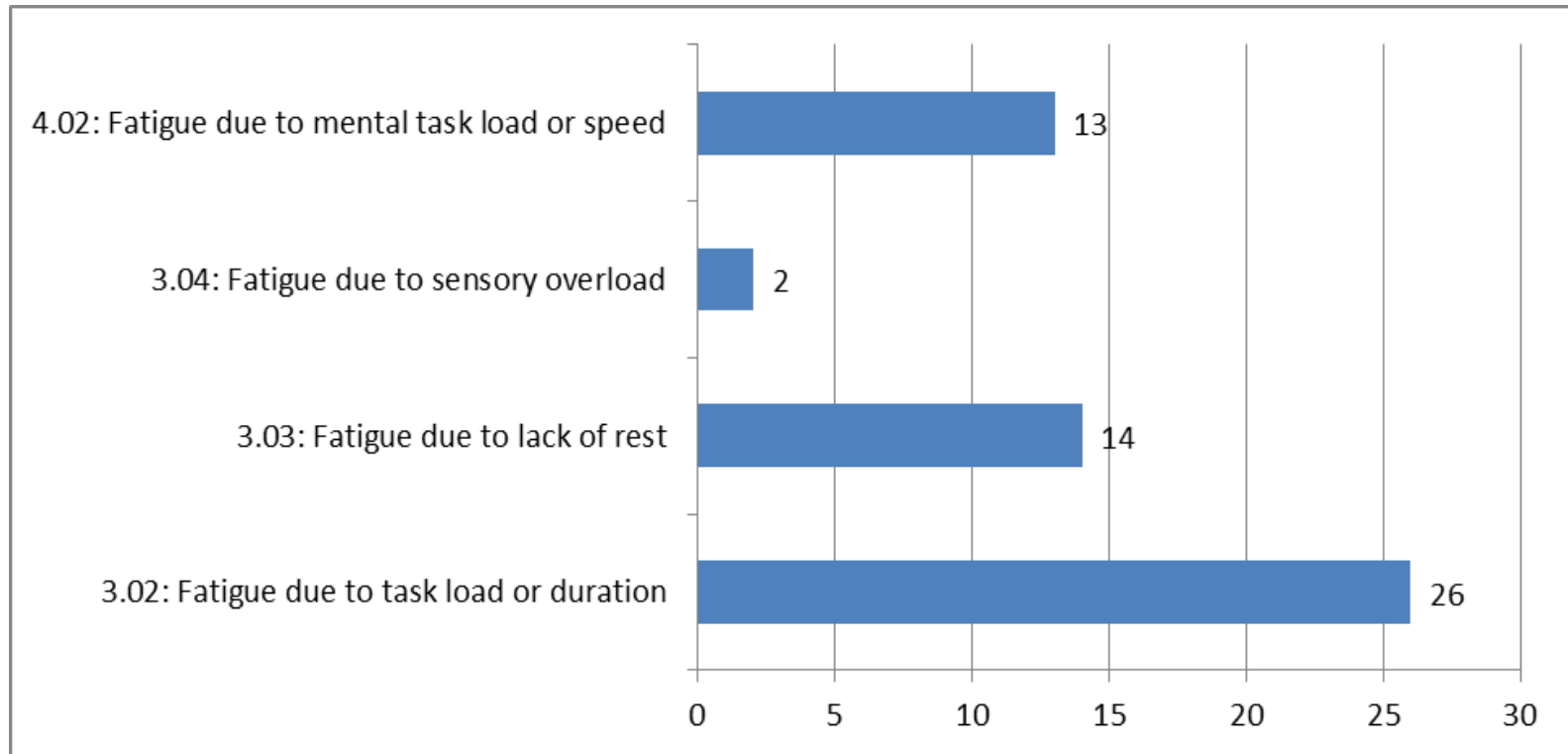
- No requirement for our Contractors to have a Fatigue Management Plan in our corporate Contractor Environmental Safety Manual.
- Began researching and discussions with internal stakeholders on language in our manual.
- Final language approved and safety program requirement in ISN activated.



2016 Contractor Incidents – 85 with “fatigue” as root cause.



2017 Contractor Incidents – 55 with “fatigue” as root cause



36% Decrease! What were some of the interventions?

- Audited against it. *Were they implementing their plan approved in ISN?*
- Edited our Contractor Safety Incident Form to ask for more detail.

3. WORK INFORMATION:			
Work shift:	<input type="checkbox"/> call-out	<input type="checkbox"/> overtime	<input type="checkbox"/> regular
Time shift began:	_____	<input type="checkbox"/> am	<input type="checkbox"/> pm
Was work stopped?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	Date last worked: _____
Date began losing time:	_____	Date returned to work:	_____
Date employer notified:	_____	How many days/months/years has employee performed this job task?	_____



Fatigue Management Program Requirements

- 14.1 General Information
 - *Contractor shall have a Fatigue Management program in place. Fatigue has shown to be a major contributor to workplace injuries. Fatigue slows reaction time, impairs judgement and heightens distractibility.*



Fatigue Management Program Requirements

■ 14.2 Key Requirements

- Contractors program shall address initial and annual training for workers on fatigue and controlling it.
- Contractors program shall address limiting work hours and controlling job rotation schedules to help control worker fatigue.
- Analysis of work tasks to control fatigue must be documented.
- Roles and responsibilities of workers to report tiredness/fatigue to supervision and those supervisors responsibility to take appropriate action shall be addressed in the contractors program.



**Recordable
Incident –
19 Aug 2017
CO2 Drilling**



Tidbits

- There are other SCAT Root Causes that are also caused by Fatigue
 - 7.6 - Improper attempt to save time and effort
 - 7.4 – Excessive frustration
 - 5.5 - Misunderstood directions
 - 4.10 – Frustration



QUESTIONS?

