

Comprehensive Safety Analysis (CSA) 2010

Status Update

Motor Carrier Safety Advisory Committee June 2010



Federal Motor Carrier Safety Administration

MCSAC, June 2010



- The Challenge
- Current Enforcement Model
- Better Way CSA 2010
- Nine-State Field Test and Result
- Outreach
- Rollout Timeline
- Summary



- Mandate: Motor carriers' safety fitness *Motor Carrier* Safety Act of 1984
- Large & varied industry: 500K active bus & truck companies
- Limited Agency resources
- Result: We assess < 2 percent of industry/year



★ Current Enforcement Model

- Over 3 million roadside inspections annually
- Today, we use only a portion of this safety data in carrier assessments
 - SafeStat
- Major tool --- On-site compliance review
 - At a motor carrier's facility; very labor intensive
 - Compliance review is required to issue a safety rating
 - Result: Contact only small percentage of carriers each year





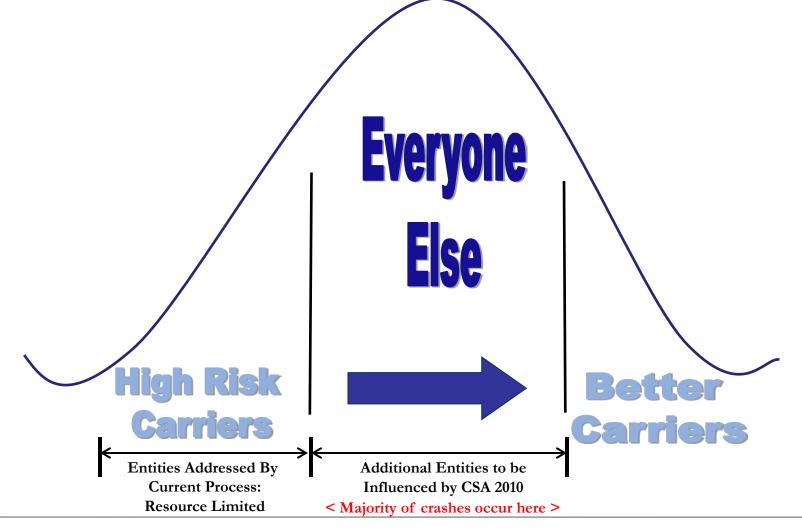
★ A Better Way – CSA 2010

- Major proactive FMCSA safety initiative
 - Increase our contact with industry through increased efficiencies (Evidence: Contact by Government increases compliance)
 - Maximize FMCSA and State partner resources
 - Assess safety fitness of greater segment of industry
 - Bring about greater reduction in large truck and bus crashes





★ Safety Profile of Truck and Bus Industry





★ CSA 2010 - <u>Three</u> Major Elements

- New Safety Measurement System (SMS)
 - More comprehensive than SafeStat and provides more detailed assessments
- Broader array of compliance interventions
 To supplement the compliance review (CR)
- New safety fitness methodology

 To decouple safety ratings from onsite reviews

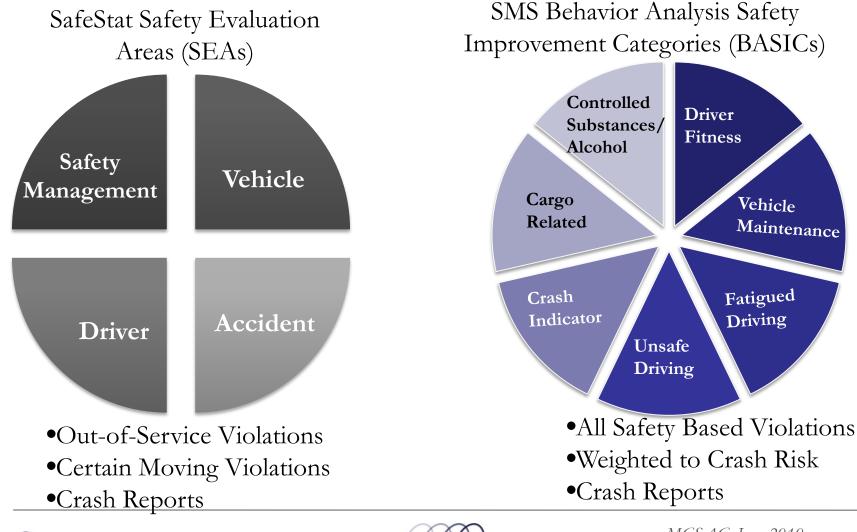
<u>Today</u>

- SafeStat is used to prioritize carriers
- Identified carriers receive onsite CRs
- Only CRs yield safety ratings

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★ 1st component: Current Measurement System vs. New





2nd component: Broader Array of Interventions

• Early Interventions

- Warning Letters
- Targeted Roadside
 Inspections
- Investigations
 - Offsite
 - Onsite focused
 - Onsite comprehensive

- Follow-On Corrective Actions
 - Cooperative Safety Plan
 - Notice of Violation
 - Notice of Claim
 - Out-of-Service Order

Going from "What" to "Why"



★ 2nd component: Broader Array of Interventions (Cont'd)

- Less time consuming and less resource intensive
- More carriers contacted; earlier
- Emphasis is on achieving compliance



★ 3rd component: New Safety Fitness Determination

- SFD rule would de-couple safety ratings from compliance reviews
- SFD would be determined by safety violations:
 - Found through on-road safety performance roadside inspections
 - Found through CSA 2010 interventions
 - Including Essential Safety Management and Fundamental Unfit Violations
- Updated monthly
- Projected increase in annual proposed "Unfit" SFDs
 - Current rating process: ~1,400
 - New SFD methodology: ~7,000
 - Five-fold increase



★ Example Carrier – Proposed Unfit under SFD

FMCSA Review Date:	6/24/2009	FMCSA Review		eview 1	Гуре:		Compliance Review	
Safety Rating:	SATISFACTORY	Date of Last MC		S-150 Update:		05/14/2010		
SafeStat Category:	В		HM 70 Safe Stat Ca		Category:			
Accident SEA:	98.9		Vehicle SEA:			42.62		
Driver SEA:	97.74		Safety Management SEA:					
CARRIER SAFETY MEASUREMENT								
BASIC		ON-RO PERFORM			INVESTIGATION DEFICIENT DATE*	Ν	SAFETY ASSESSMENT	
Unsafe Driving	٢	100.	.0		N/A	\square	DEFICIENT	
Fatigued Driving (Hours-of-Service)	0	99.6			N/A	$ \rangle$	DEFICIENT	
Driver Fitness	0	93.9	9	AND/ OR	6/24/2009		DEFICIENT	
Controlled Substances and Alcohol	0	89.4	-		N/A		DEFICIENT	
Vehicle Maintenance	0	55.5		UK	N/A		\checkmark	
Cargo Related	0	40.7	,	N/A		\checkmark		
Crash Indicator	0	99.8	8				DEFICIENT	
nsurance/Other					N/A		$\overline{\checkmark}$	

★ 3rd component: Safety Fitness Methodology (Cont'd)

- Draft NPRM withdrawn from OST Mar-22-2010
 - Evaluating options based on feedback from partners, stakeholders, and field test
 - Exposure metric for Unsafe Driving and Crash BASICs vehicle miles travelled vs. power units
 - To ensure most effective SMS for identifying high risk carriers.
- May DOT Report on Significant Rulemakings
 To OMB Oct-4-2010
 - Publish Jan-18-2011



★ Field Test and Results

Nine Test States:

- 30 month test initiated Jan-08
- Designed to test 2 of the 3 components
 SMS
 - 51015
 - Interventions Process
- Original test states included 50% of CO, GA, MO, and NJ
- Added 100% states in spring and fall 2009 MT, MN, KS, MD, and DE
- Test validity, efficiency and effectiveness
- Evaluation by University of Michigan (UMTRI)





***** Field Test and Results (Cont'd)

- Warning letters are having a positive impact:
 - Over **6,600** sent
 - Over 50% of recipients logged in to view their data and safety assessments
 - Feedback from test states indicate that some carriers appreciate the early alert and are modifying safety practices



***** Field Test and Results (Cont'd)

- Reaching its goal of contacting more carriers
 - Research shows more contacts equals improved safety performance
 - Up to 35% more carrier investigations
 - Test: 4.0 Investigations/Safety Investigator
 - Non-test: 2.5 Investigations/Safety Investigator
- Employing the full array of investigations
 - Investigations in test states have been done in the following proportions
 - Onsite Investigations Comprehensive (~30%)
 - Onsite Investigations –Focused (~45%)
 - Offsite Investigations (~25%)



* Field Test and Results (Cont'd)

• Following up with carriers

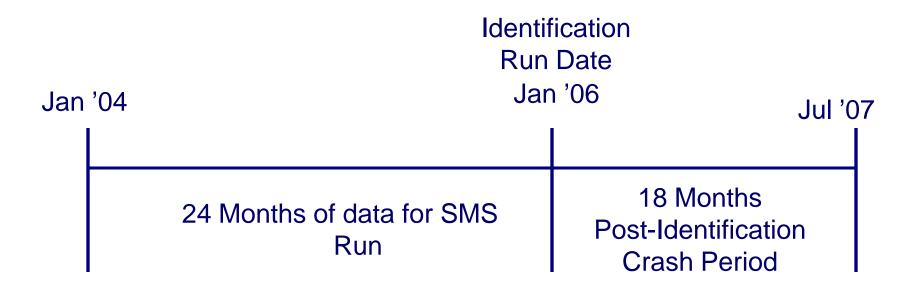
- Nearly 50% of investigations result in one of following: Notice of Claim or Violation, Cooperative Safety Plan
- Increased enforcement targeting Fatigued Driving and Vehicle Maintenance BASICs

• Increased driver enforcement

- Applying NOVs and NOCs
 - Test: **3.5** Driver Enforcement/Safety Investigator
 - Non-test: **3.2** Driver Enforcement/Safety Investigator



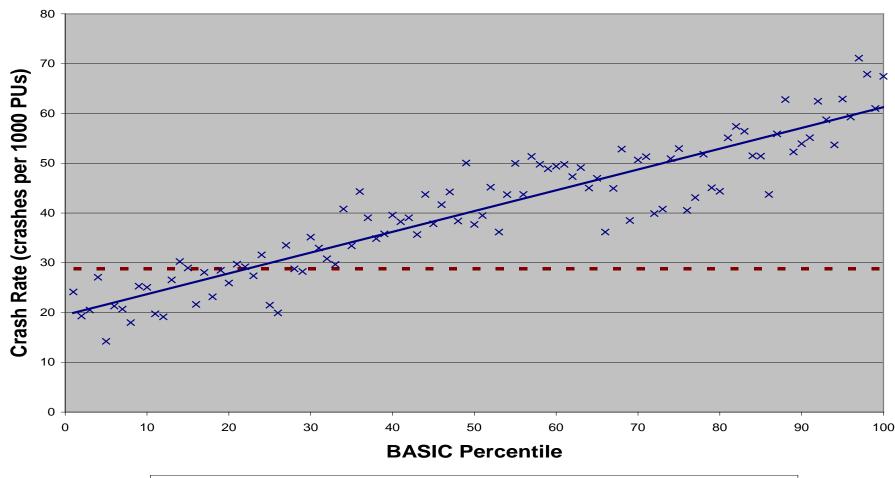
SMS Effectiveness Testing: Timeline





* Field Test: SMS Effectiveness Results

Fatigue BASIC and high risk carriers



× Fatigued Driving - - National Average - Linear Trendline (Fatigued Driving)

***** Field Test Next Steps

- Formal test data collection in the four 50/50 States concludes June 2010
 - Remaining personnel fully trained in July
- Evaluation and metrics to date
 - Focused on efficiency
 - Designed to ensure uniform processes in test states, and
 - Overall management of the Field Test



***** Field Test Evaluation

- Independent 3rd party evaluator to analyze Field Test Results
 - Limited to evaluating SMS and Interventions process
 - Field test results exclude SFD impact from full model
- Evaluation will include:
 - How effective are interventions in improving the crash rates of carriers: CSA 2010 vs. SafeStat/CR model?
 - How effective are various interventions in getting carriers into compliance?
 - Are particular intervention types more effective with particular BASICs?



★ Outreach - Transparency

- Foundation laid for systematic CSA 2010 rollout
 - Implemented national outreach program
 - 11 public listening sessions; Federal Register notices
 - Website (660,000+) and email subscribers (9,785)
 - Radio and print media
 - Partner and stakeholder briefings nationwide
 - Field workforce readiness initiatives
- Listened carefully to partners, stakeholders, and field staff feedback
- Rollout schedule designed so "we do it right"



★ Rollout Timeline

- Revised rollout timeline from summer to fall 2010
 - In response to stakeholder input and field test "lessons learned"
- Apr-Nov 2010 --- Motor carrier Data Preview
 - Opportunity to correct unsafe behavior
 - Submit requests for data review
- July-2010 --- Train remaining personnel in four 50-50 test States
 - Nine States fully operating w/SMS and CSA 2010 interventions



★ Rollout Timeline

- Nov-Dec 2010 ----
 - Replace SafeStat with new SMS; available to public
 - Begin sending warning letters nationwide
 - Update roadside inspection selection system nationwide
 - Begin to phase-in four new elements into CR process in 41 States
 - Focused compliance reviews to reach more carriers
 - **Direct Notices of Violation** (NOV) to carriers with deficient Driver Fitness BASIC
 - Red Flag Driver process to increase driver focus
 - New DSMS sampling procedures to increase driver focus and improve carrier investigations



★ Rollout Timeline (Cont'd)

- Jan-2011 --- Publish NPRM
- Jan-Nov 2011 ----
 - Continue comprehensive partner/stakeholder outreach
 - Continue field workforce preparation
 - Complete interventions training & implementation 41 States





- A fully implemented CSA 2010 ---
 - Better achieves our safety mandate
 - Achieves greater efficiency for FMCSA/States
 - Enables us to take more unsafe motor carriers off the road
 - Requires greater on-road safety accountability
 - Expect greater reduction in CMV crashes, fatalities, and injuries





Frequently Asked Questions







- Will FMCSA or the CSA 2010 initiative assign safety ratings to individual CMV drivers?
 - **No**
- What is the Driver Safety Measurement System (DSMS)?
 - Internal enforcement tool used during motor carrier investigations
 - Results not available to employing motor carriers or public





- What is the Pre-Employment Screening Program (PSP)?
 - Mandated by Congress irrespective of CSA 2010 effort
 - Screening tool that allows motor carriers and drivers to purchase inspection and crash history
 - 5 years Crashes, 3 years inspections
 - No rating or DOT assessment
 - Requires driver consent
 - <u>http://www.psp.fmcsa.dot.gov</u>
- Does a driver's violation history at a previous employer impact a carriers Safety Measurement System (SMS) evaluation?
 - **No**





- Do tickets or warnings that drivers receive while operating their personal vehicles impact the new Safety Measurement System (SMS)?
 - **No**
- Will the Safety Measurement System (SMS) data related to <u>carriers</u> be available to the public?
 - Yes, beginning in late November or early December
 - Crash evaluation restricted from public view





- Is there a way to request a review of potentially erroneous or improper violations on carrier and/or driver records
 - Yes, DataQs
 - https://dataqs.FMCSA.dot.gov/login.asp.
- Do "clean inspections" count in the SMS?
 - Yes, they have a positive influence on results
 - FY 2009: One third of the over 3.5 million inspections had no violations





- Why doesn't the current CSA 2010 Data Review Website provide motor carriers with a good or bad "assessment" in the Safety Measurement System (SMS)BASICs?
 - SMS is still being refined based on the Operational Model Test
 - SMS results may differ based on these refinements





- Effective and equitable measure of exposure for the Crash and Unsafe Driving BASICs
 - Power Units and Vehicle Miles Travelled (VMT)
- Safety Event Grouping
- Violation Severity Weights
- Other



In Summary: CSA 2010 Roll-out Schedule – One More Time

April to August 2010: National Data Review

- Carrier review of violations by BASIC and crash data (April)
- Carrier preview of SMS results and safety assessment in BASICs (August)

Late November thru December 2010: SMS Replaces SafeStat

- FMCSA/States prioritize enforcement with SMS
- SMS results are available to industry/public
- Warning Letters are issued to carriers with deficient BASICs
- Roadside inspectors use SMS results to identify carriers for inspection
- Apply some key on-site investigation concepts from the operational model

2011: Interventions Implemented State-by-State and SFD NPRM

- SFD NPRM published
- Systematic introduction of new investigation types (e.g. off-site) and
- National training program to support new interventions process

