

# Texas Regional Entity Report

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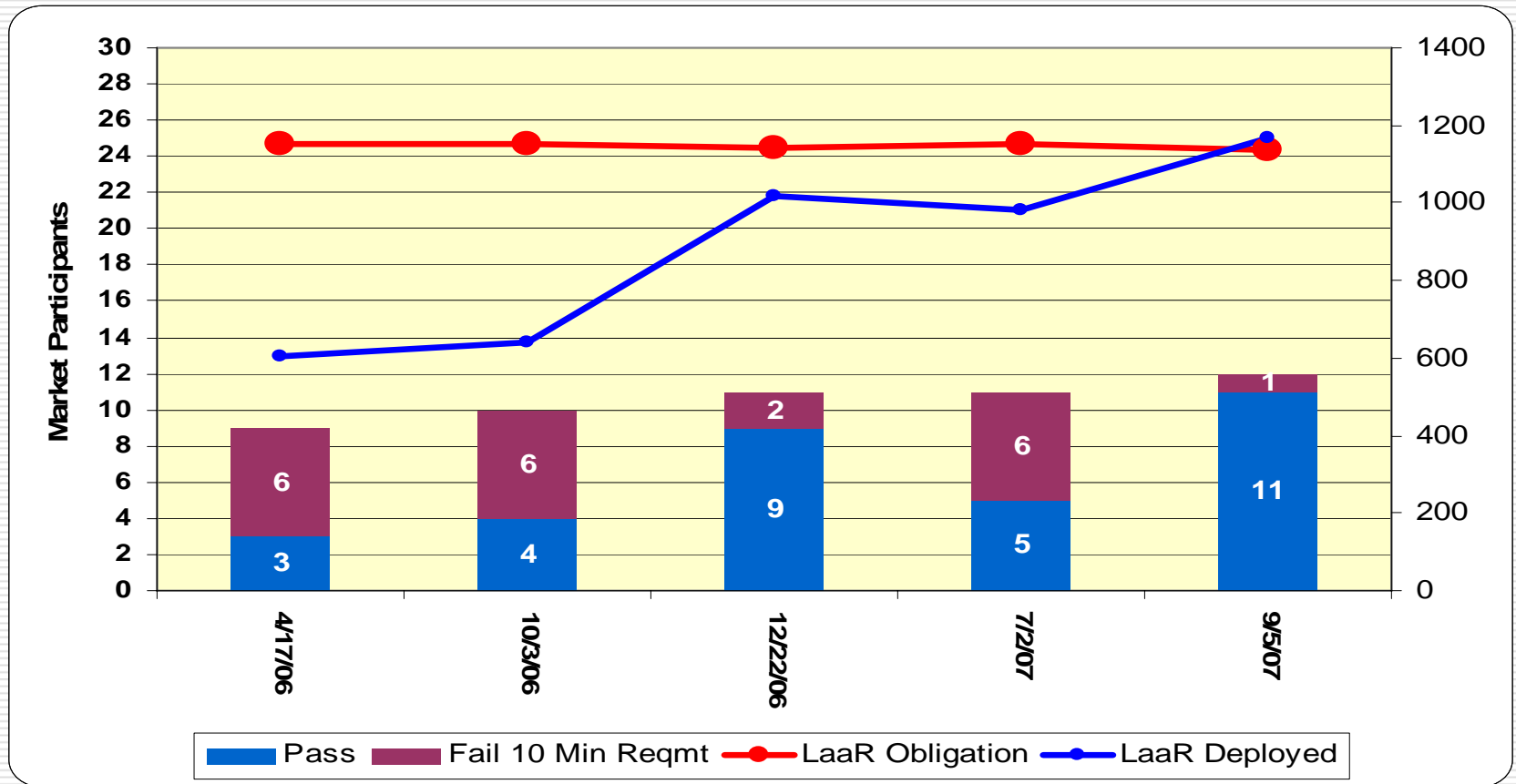
October 2007

# Performance Highlights

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- ❑ ERCOT's Control Performance Standard (NERC CPS1) score for September – 128.83
- ❑ Initial scores for September indicate all non-wind-only QSEs passed the PRR 525 measure
  - ❑ This is the third straight month all non-wind-only QSEs have passed this measure
- ❑ Overall control performance score using the PRR 525 measure (SCPS) for non-wind-only QSEs > 95%

# LaaR Deployment History



# Texas RE Monthly Summary

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- ☐ For September.....
  - ☐ Protocol & Operating Guides violations
    - ☐ 0 new alleged
  - ☐ NERC Standards violations
    - ☐ 1 new alleged
  - ☐ 3 new events reported
    - ☐ 2 Compliance Reviews in progress
  - ☐ Final on-site Compliance Audit completed for 2007
  - ☐ 2 registration appeals denied by NERC Board of Trustees Compliance Committee
  - ☐ 2 pending registration appeals

# Texas RE Delegation Agreement

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- ❑ Amended and Restated Regional Delegation Agreement (RDA) between Texas RE and NERC as approved by the Texas RE Board sent to NERC on October 2<sup>nd</sup>
- ❑ NERC Staff seeking an extension for the FERC Filing of the RDAs
  - ❑ FERC Filing was to be made on October 16<sup>th</sup>
  - ❑ Allows the NERC Board of Trustees more time to review the 8 RDAs
  - ❑ NERC Board of Trustees to approve on October 23<sup>rd</sup>
- ❑ NERC will file NERC Board of Trustees approved RDAs at FERC

# Texas RE Fall Workshop

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- ☐ Planned for November 2<sup>nd</sup> – Austin Met Center
- ☐ Update participants on the 2007 Compliance Monitoring & Enforcement Program – provide a “sneak peek” at the 2008 Compliance Program
- ☐ Proposed topics
  - Texas RE Organization and Entity roles
    - ☐ NERC Compliance Monitoring & Enforcement Program
    - ☐ ERCOT Protocol and Operating Guides compliance
  - Organization Registration
  - Standards overview
  - Assessing compliance
  - Enforcement and sanctions
  - Q & A
- ☐ Speakers to include Texas RE and NERC Staff

# Texas Regional Entity

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## Report Details

# NERC CPS1 Performance

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## ☐ ERCOT's CPS1 Performance

### ■ September Performance

#### ☐ September performance comparison

■ September 2007: 128.83

■ September 2006: 142.51

#### ☐ 12 month rolling average comparison

■ October 2006→ September 2007: 131.47

■ October 2005→ September 2006: 141.50

## ☐ PRR 525 Performance

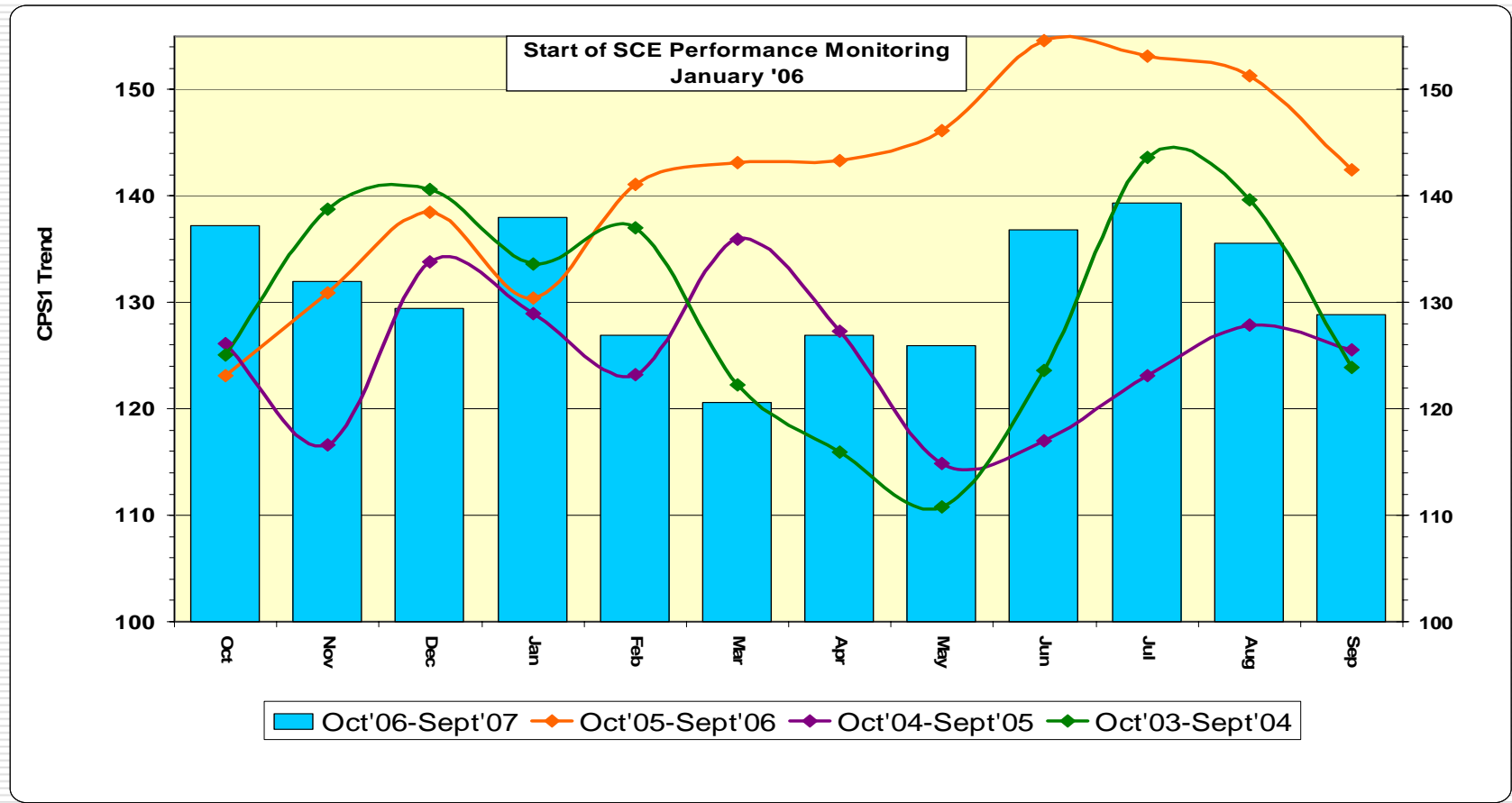
■ Scores for September indicate all 34 non-wind-only QSEs passed the measure

■ Scores posted on the ERCOT Compliance Website

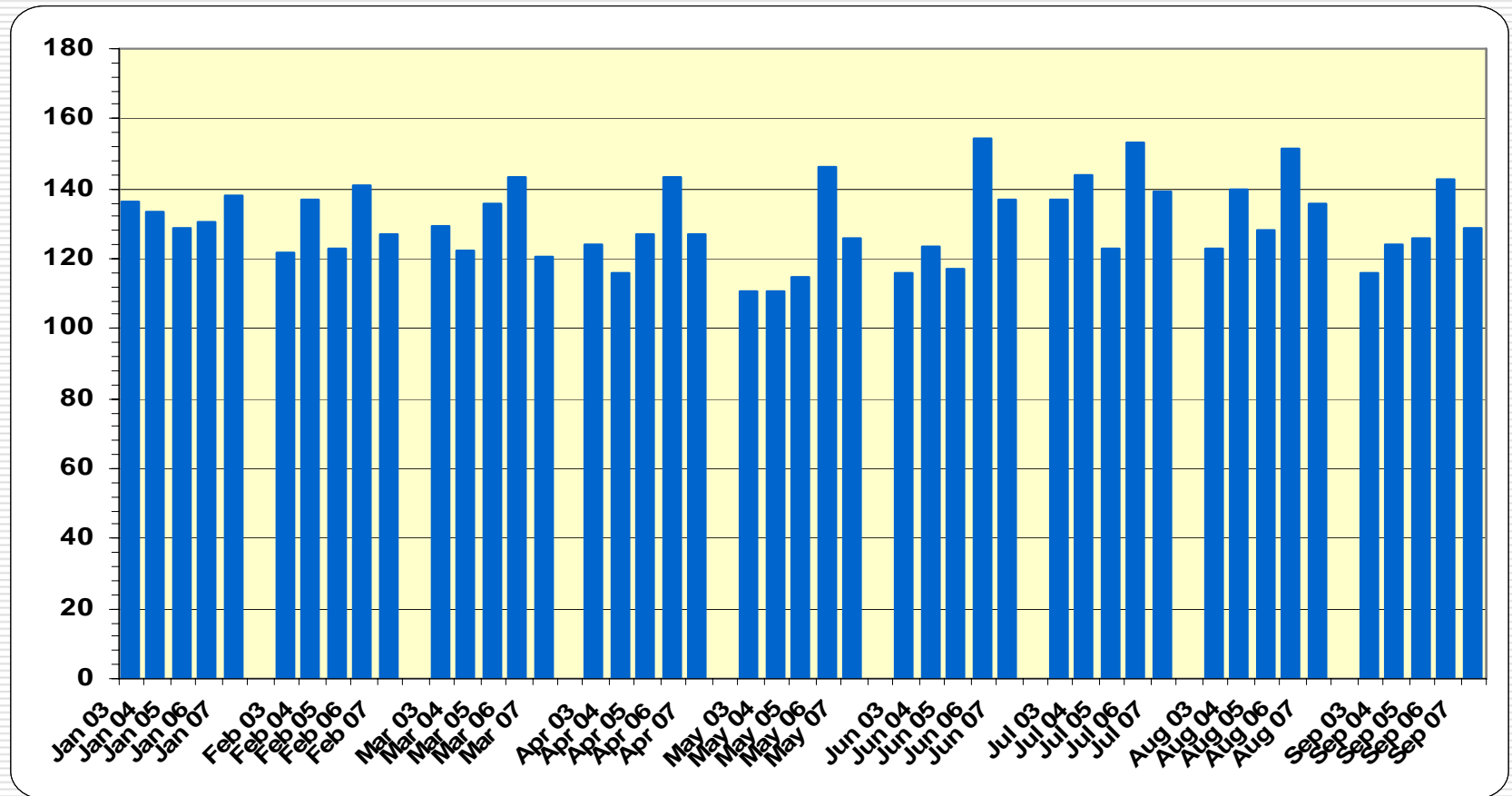
☐ [SCE Performance Scores](#)



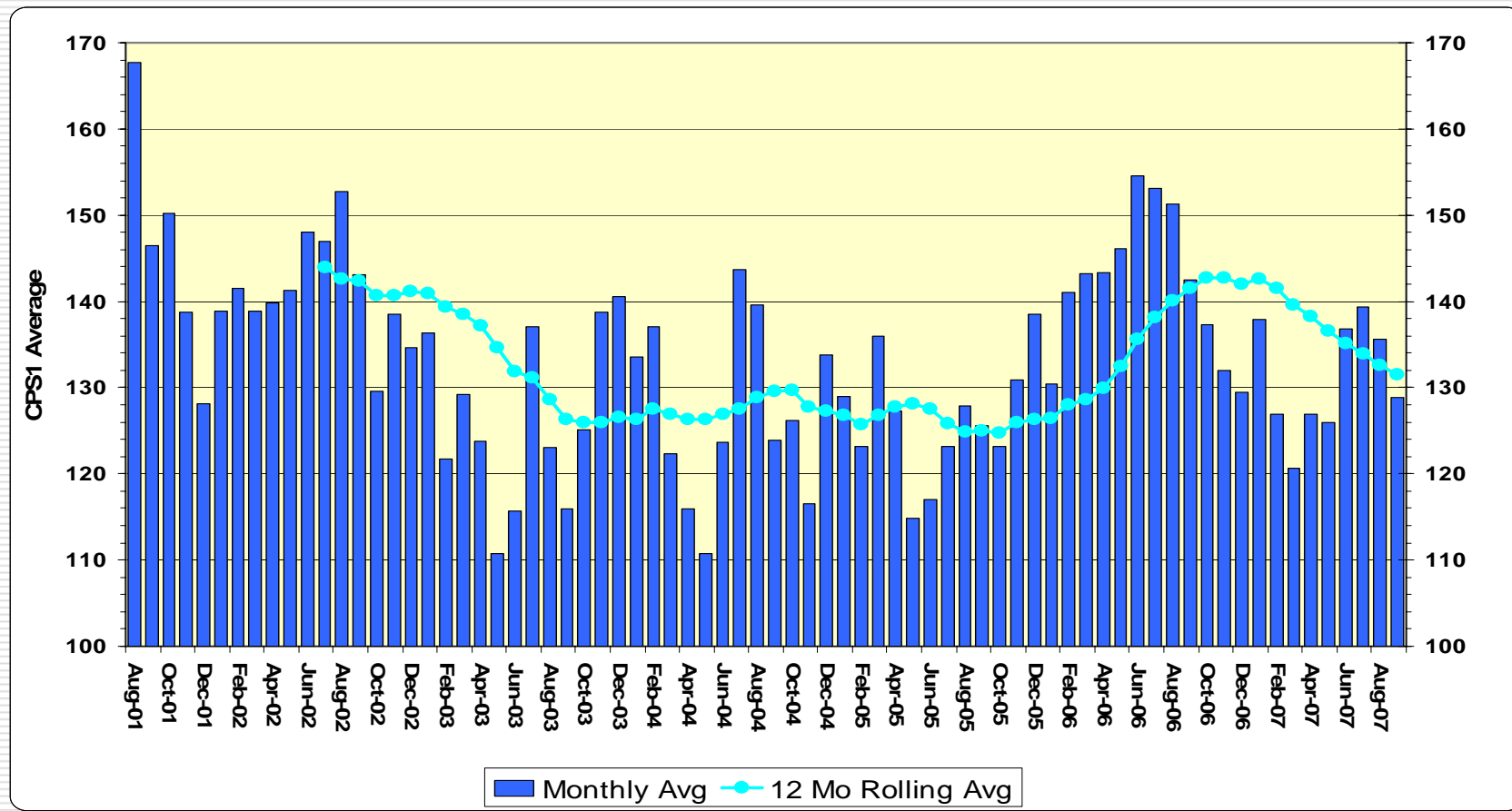
# ERCOT CPS1 Performance Comparison



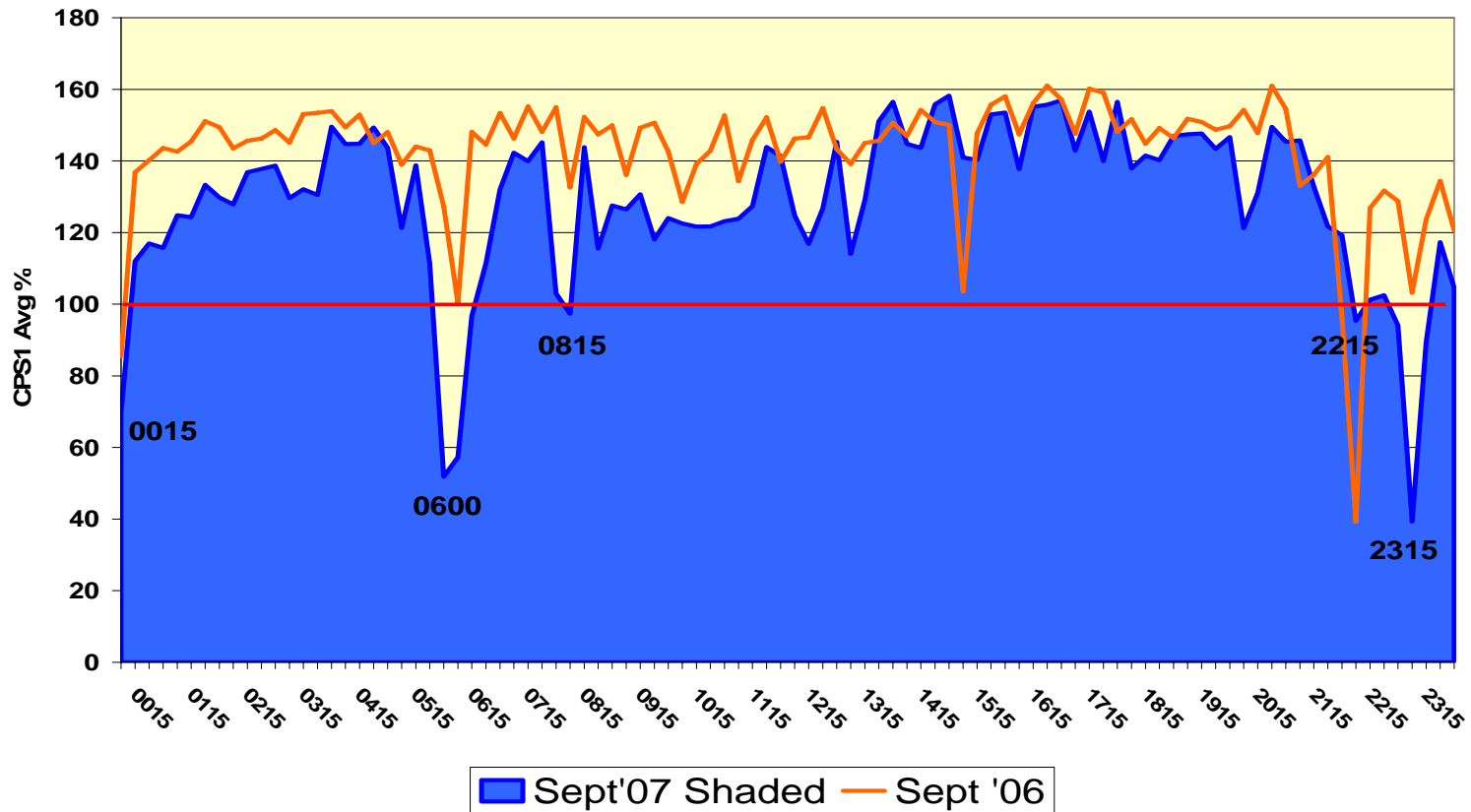
# ERCOT CPS1 Scores



# ERCOT's CPS1 Monthly Performance

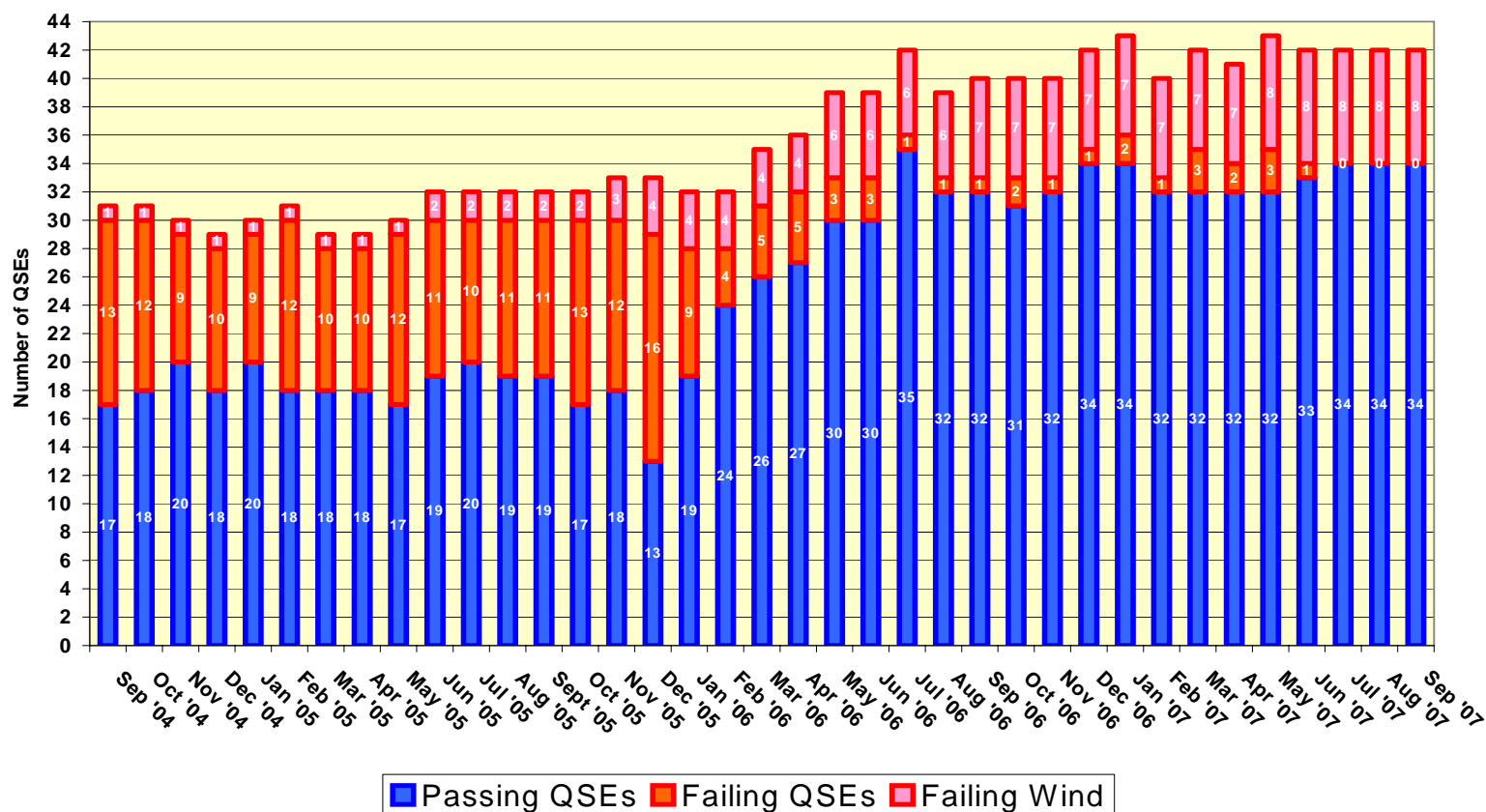


# ERCOT CPS1 by Interval

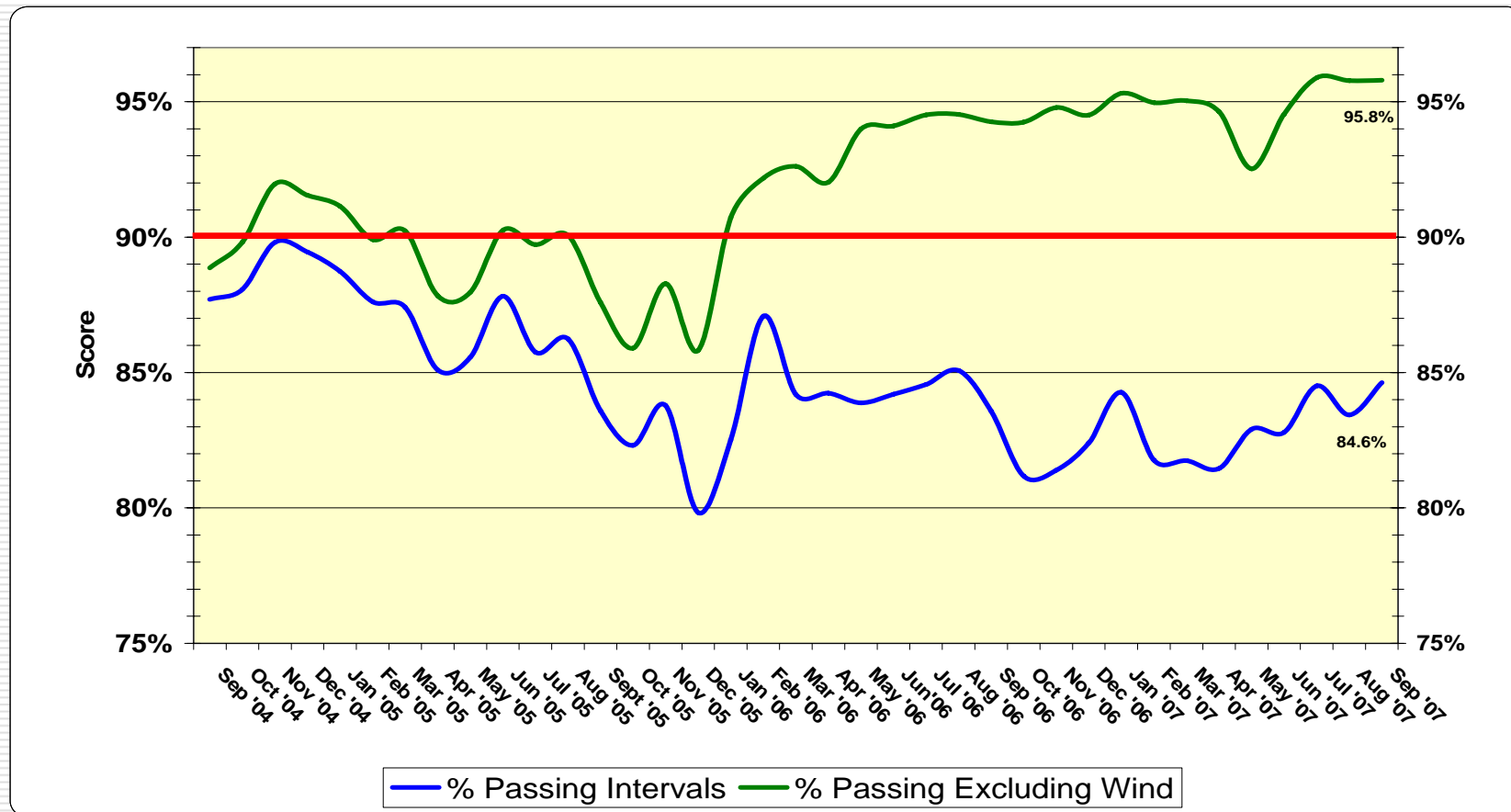


# QSE PRR 525

## 10-Minute Interval Scoring



# PRR 525 Passing 10-Min Interval Percentage Trends




# September 2007 Resource Plan Performance Metrics

PARTYNAME	ID																								
	DK	BT	DE	IP	AP	AO	HA	BY	BC	JA	AY	AM	AR	BR	HJ	DF	BP	CI	AE	AD	BJ	BH	CJ	CF	ET
Resource Status	100	-	100	100	100	100	99	100	100	100	95	99	100	99	-	100	100	100	-	100	100	-	100	100	93
LSL HSL Percent	80	-	100	100	98	95	95	99	100	93	100	100	98	98	-	100	100	98	-	99	98	-	100	100	100
DA Zonal Schedule	100	98	100	100	100	99	99	100	100	100	85	100	100	100	99	100	100	100	-	100	100	100	97	98	91
AP Zonal Schedule	100	95	99	99	100	100	99	99	99	100	99	97	100	98	99	100	100	98	-	100	100	98	98	98	93
Down Bid & Obligation	92	96	79	97	99	97	99	97	98	97	98	97	96	96	93	85	99	97	-	97	91	96	97	97	100
Total Up AS	-	-	98	-	100	96	94	100	99	-	97	94	100	94	-	100	-	-	100	-	-	-	96	99	99

PARTYNAME	ID																							
	DA	GR	GS	BF	BE	DP	EU	BG	CX	FK	HW	IN	IZ	JB	BX	CC	CD	FS	AC	CQ	IV	IO	FY	
Resource Status	100	-	-	-	-	97	100	98	99	99	99	99	100	-	99	100	99	100	100	99	-	100	-	
LSL HSL Percent	100	-	-	-	-	-	100	99	100	99	100	100	90	-	100	100	92	100	-	92	-	100	-	
DA Zonal Schedule	98	99	95	100	100	-	100	100	98	99	100	100	100	99	93	99	100	-	100	100	100	-		
AP Zonal Schedule	99	99	95	99	99	-	100	99	91	100	99	100	100	98	99	100	98	100	-	99	99	98	-	
Down Bid & Obligation	94	97	88	96	95	-	92	98	95	99	95	98	100	100	94	99	92	-	-	98	99	93	-	
Total Up AS	93	-	-	-	-	100	97	99	99	98	98	76	-	-	99	100	98	-	-	100	-	-	99	

 4 Consecutive Failing Scores  3 Consecutive Failing Scores

 2 Consecutive Failing Scores  1 Failing Score

# September 5<sup>th</sup> NERC DCS Event

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- ❑ Loss of transmission facilities caused by weather
- ❑ 1,084 MW of generation lost
- ❑ Frequency dipped to 59.739 Hz
- ❑ Load acting as a Resource (LaaR) manually deployed
- ❑ EECF Step 1 declared due to low reserves
- ❑ NERC reportable disturbance
- ❑ Frequency recovered in 6 minutes – No violation of NERC BAL-002-0
- ❑ >1,150 MW LaaR deployed across ERCOT Region within 10 minutes
  - One QSE with LaaR did not meet 10-minute requirement
  - First time deployment for that LaaR (3 MW Obligation)
- ❑ Event Investigation and Compliance Review underway



# LaaR Deployment – September 5<sup>th</sup>

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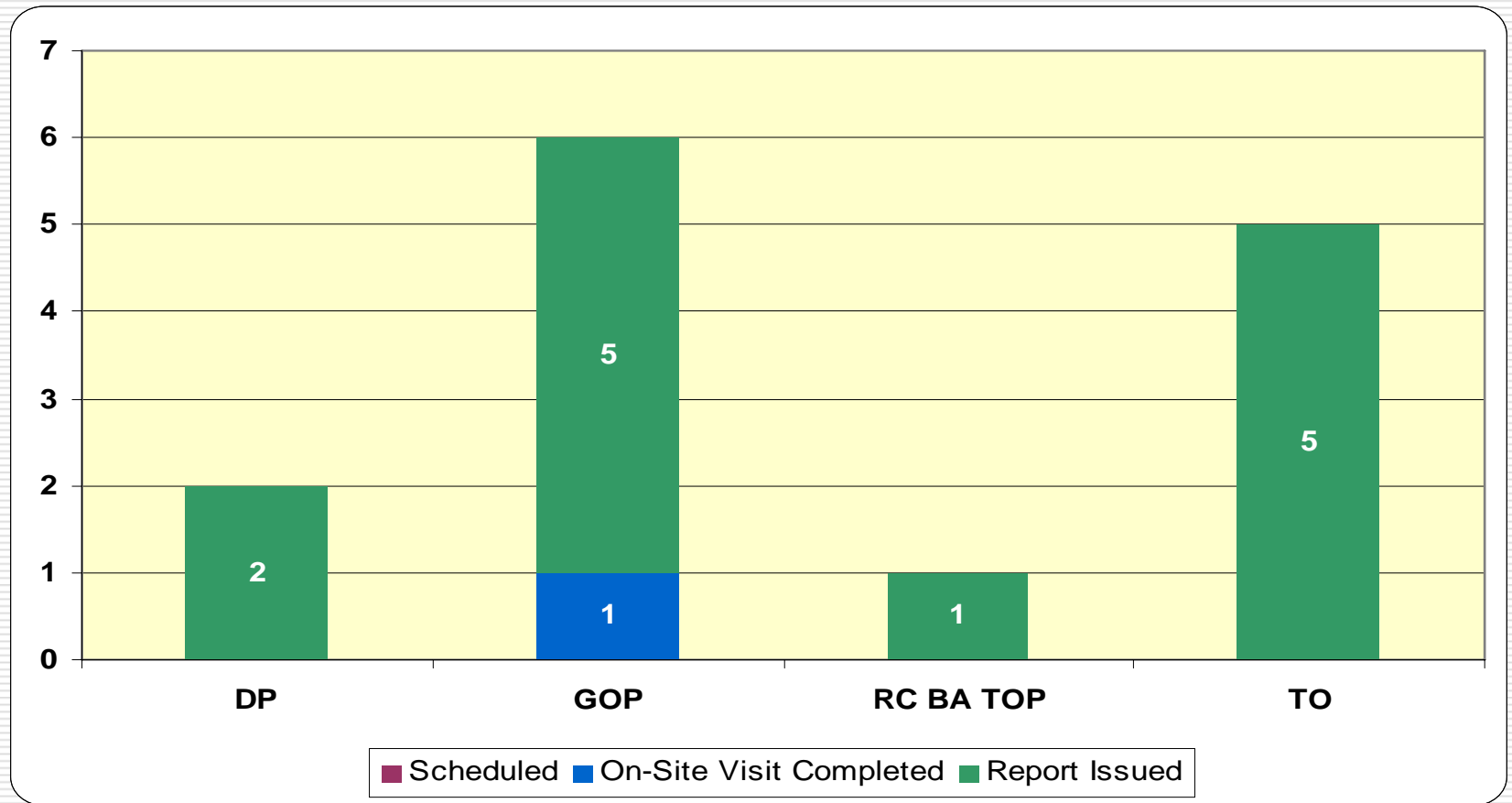
- ❑ Significant Improvement in LaaR Deployment Performance on September 5<sup>th</sup>
- ❑ Exceeded 1,150 MW Obligation
  - 1,169 MW Deployed Within 10-Minutes
- ❑ PRR 714 effective August 1<sup>st</sup> requires...
  - LaaR qualification testing – actual load interruption
  - Additional periodic LaaR testing at least once in every 365 days
  - Disqualification for 2 failures within any rolling one-year period
  - If disqualified, LaaR can reapply after 6 months

# Organization Registration Status

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- ❑ Of 227 entities registered in the ERCOT Region, 8 entities officially appealed their registration
  - ❑ 4 appeals resolved by the Texas RE
  - ❑ 2 Registered Entity appeals heard by NERC Board of Trustees Compliance Committee (BOT CC) – both appeals denied
    - ❑ 1 entity appealed their registration as a Transmission Owner
    - ❑ 1 entity appealed their registration as a Transmission Owner/Planner
- ❑ 2 appeals pending and will go before the BOT CC for resolution
  - ❑ 2 entities appealing their registration as a Generator Operator

# 2007 Compliance Audits



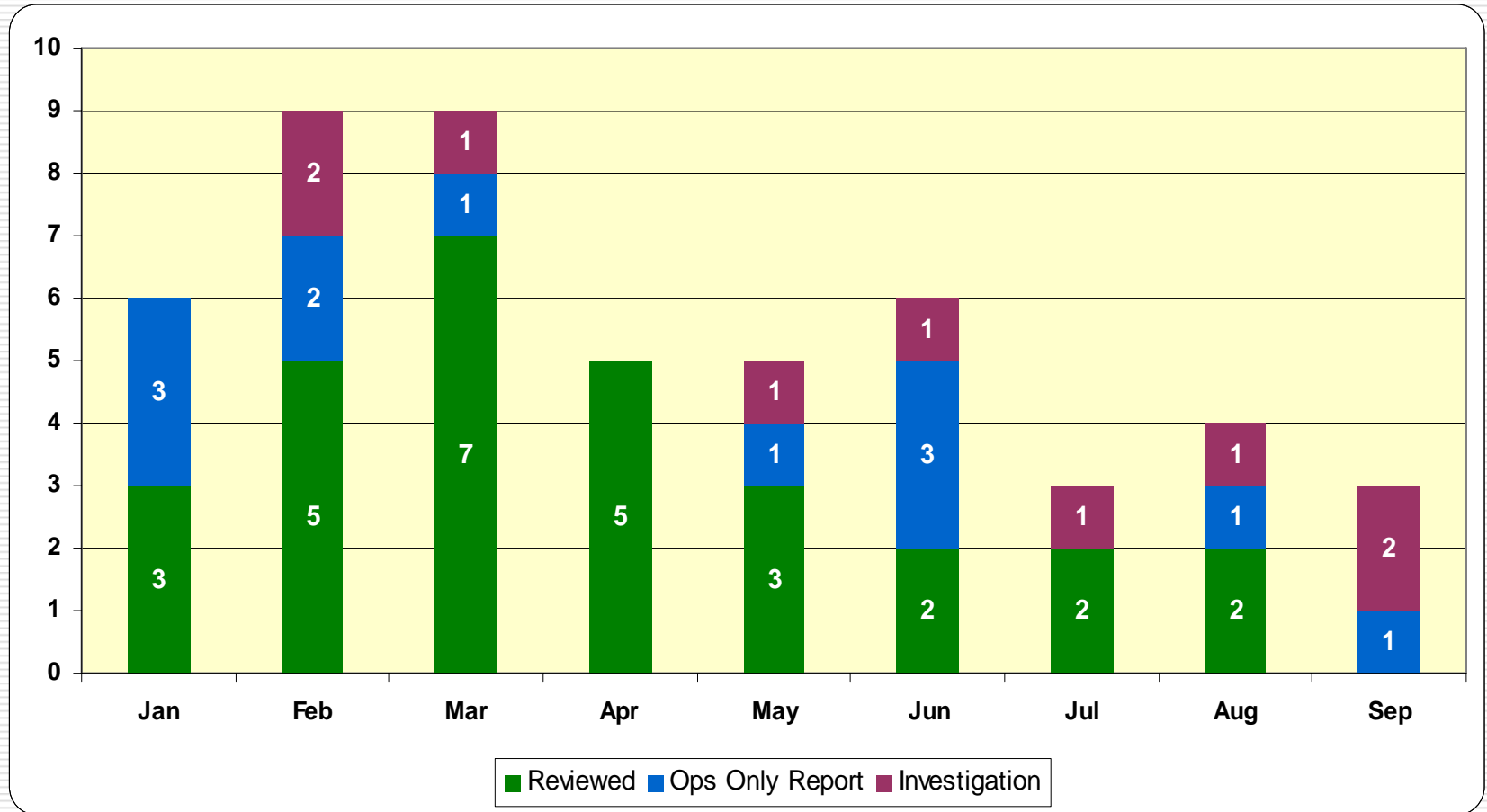
# NERC Functional Entity Types

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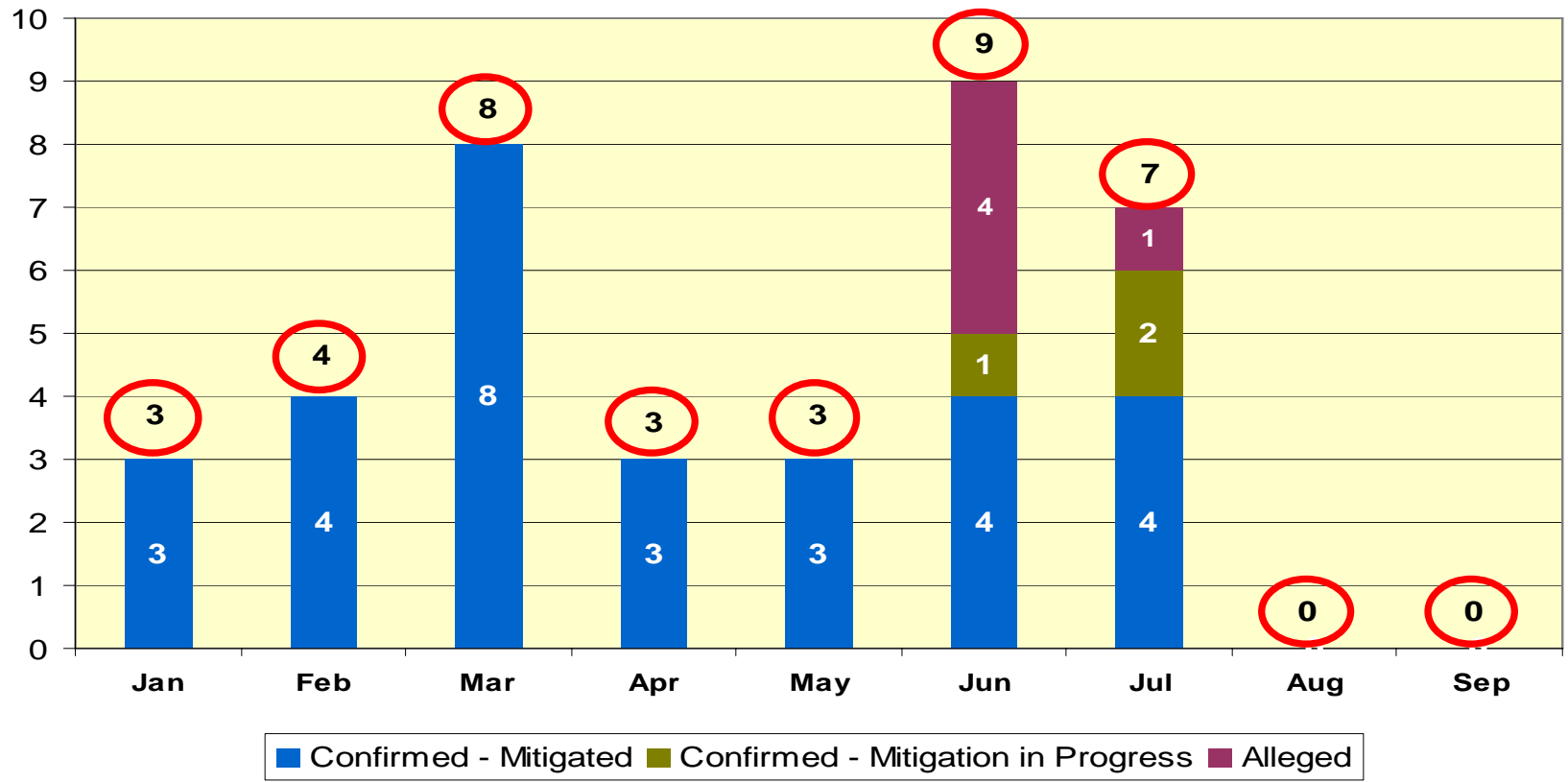
- DP – Distribution Provider
- GO – Generator Owner
- GOP – Generator Operator
- TO – Transmission Owner
- TP – Transmission Planner
- RC – Reliability Coordinator
- BA – Balancing Authority
- TOP – Transmission Operator
- PA – Planning Authority
- TSP – Transmission Service Provider
- RP – Resource Planner
- PSE – Purchasing-Selling Entity

# Compliance Reviews

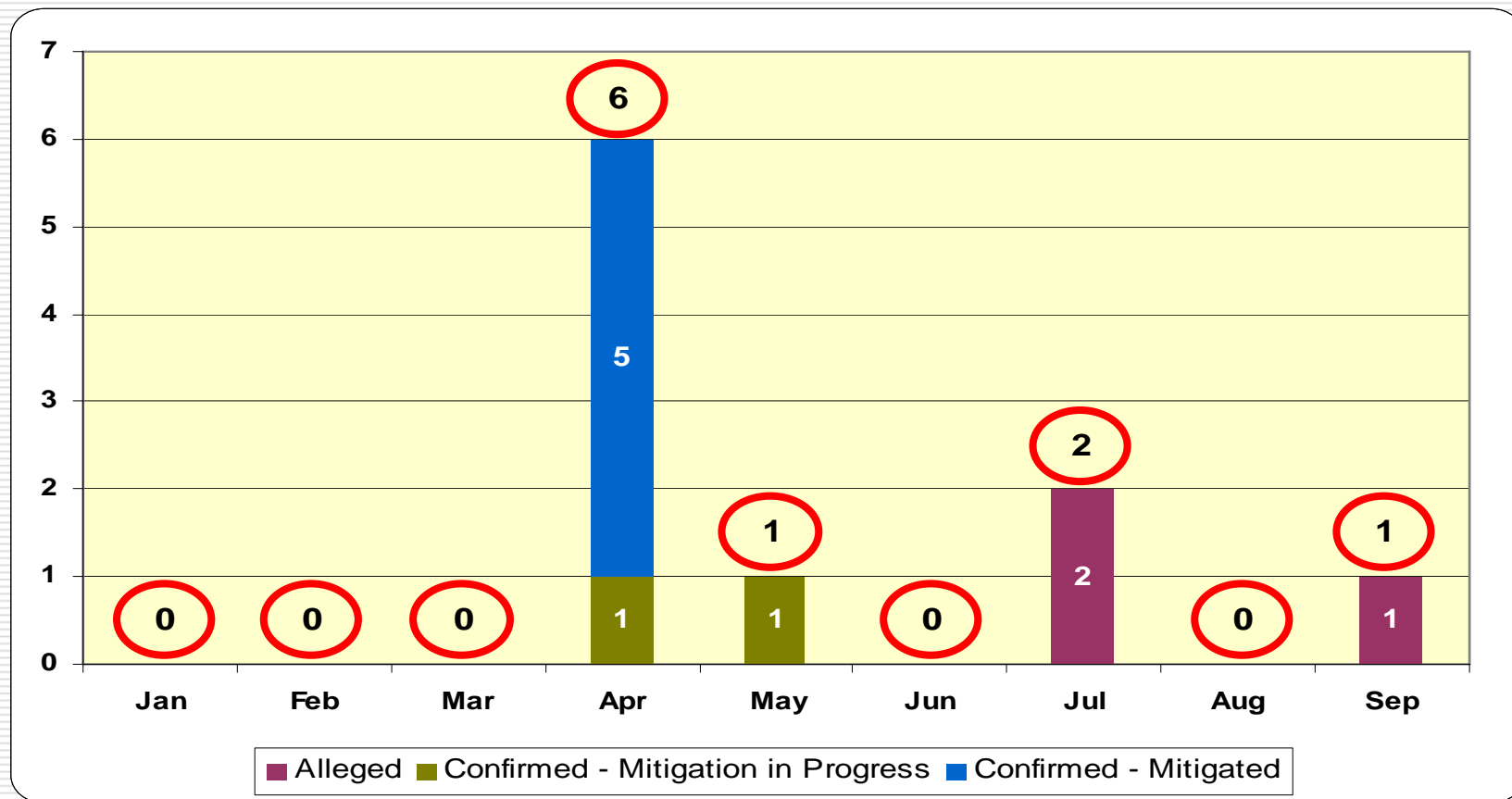
## Events by Month



# Violations of ERCOT Protocols Reported by Month



# Violations of NERC Standards Reported by Month



# NERC Reliability Standard Violations

Post June 18<sup>th</sup>

- 
- July – Alleged violations of PRC-008 R1 & R2 discovered during audit
    - Implementation and Documentation of Under Frequency Load Shedding (UFLS) Equipment Maintenance Program
    - Documentation of the maintenance and testing program was not provided
    - Violation Severity: Level 4 (Severe)
    - Violation Risk Factor: Medium
    - Potential Impact: Low (incomplete documentation of work performed)
      - Less than 1% of total UFLS in ERCOT
    - Category – Administrative



# NERC Reliability Standard Violations

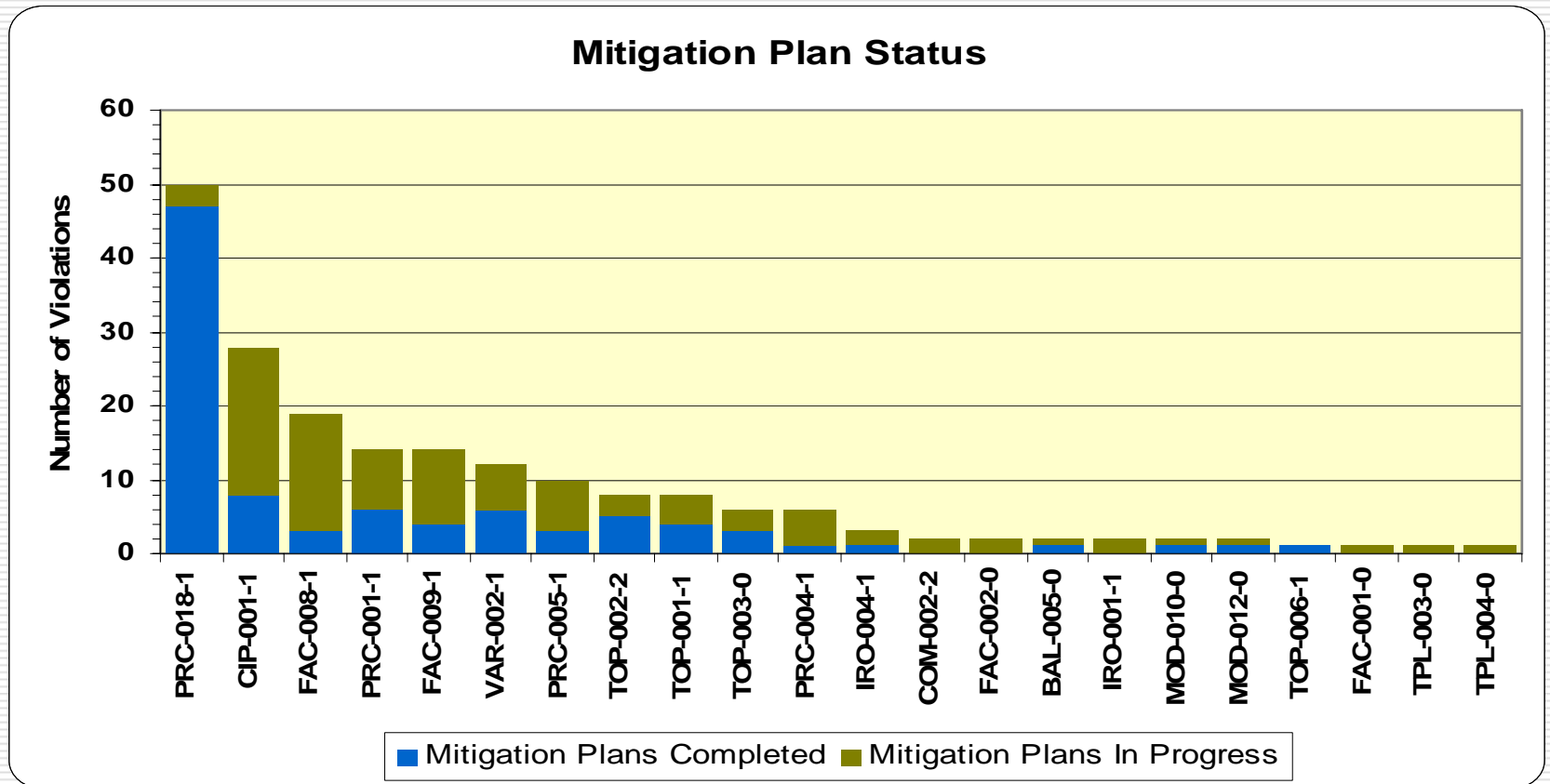
Post June 18<sup>th</sup>

- 
- ❑ September – Alleged violation of PRC-005 R2 discovered through Self-Certification
    - Transmission and Generation Protection System Maintenance and Testing
    - Maintenance & Testing did not occur within the identified intervals
    - Violation Severity: Level 2 (Moderate)
    - Violation Risk Factor: Lower
    - Potential Impact: Low (small non-345 KV system; limited number of devices late on maintenance)
    - Category – Technical

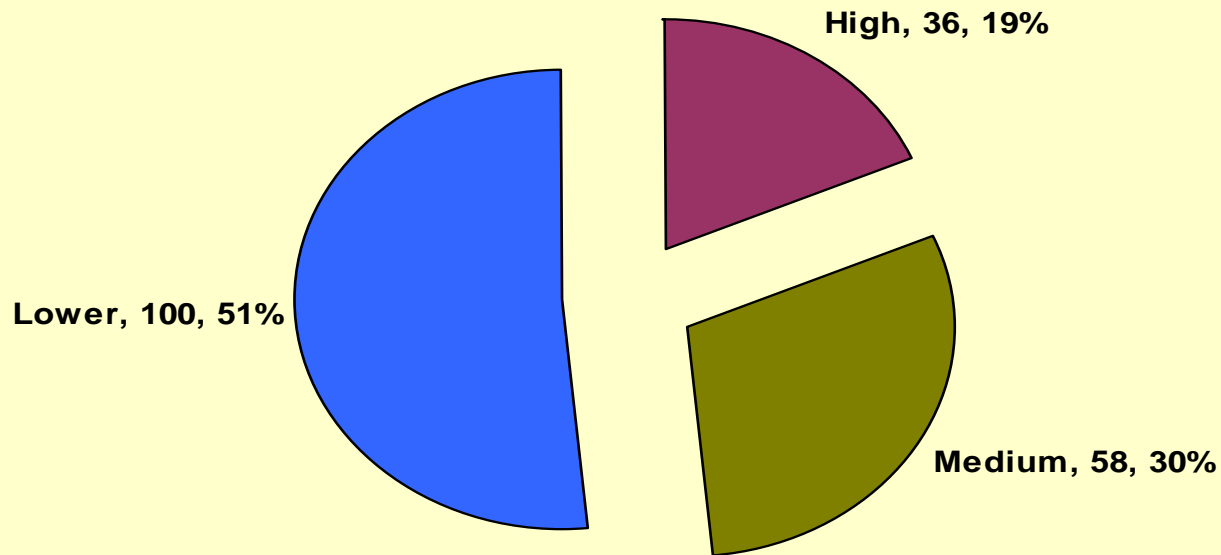
# NERC Standards

## Self-Reported Violations

### Pre-June 18th



# Risk Factors for Self-Reported Violations Pre-June 18th



**Risk Factors are being assigned to each NERC Standard as  
part of the Standard Development Process**

# Self-Reported Violation Categorization

