

The seal of the New Jersey Turnpike Authority is a circular emblem. It features a map of New Jersey in the center, with a road network overlaid. To the left of the map is a shield containing the letters 'TP'. To the right is a globe with the word 'TURNPIKE' written across it. The outer ring of the seal contains the text 'NEW JERSEY TURNPIKE AUTHORITY' at the top and '1949' at the bottom.

New Jersey Turnpike Authority

Henry (Chip) Eibel Jr. - *Director of Operations*

John Biront, P.E., PTOE – *Acting Traffic Engineer*

NJ Turnpike – Quick Facts

- Approximately 148 miles
- Actively Managed Roadway
- ADT of 679,000
- 13% Commercial Vehicles
- 70,000 Motorist aids on an average
- 70 Heavy Duty accidents per year

Garden State Parkway – Quick Facts

- Approximately 173 miles
- 1.2 Million vehicles per day
- No trucks north of MP 105
- Limited access tolled roadway
- 50,000 Motorist aids on average
- The Parkway has been ranked as one of the busiest toll highways in the country based on the number of toll transactions.

NJ Turnpike / GSP – ITS Equipment

Traffic Detection Consists of INRIX & Sensys
Pucks

149 Emergency Speed Limit / Warning signs
(only 10 remain)

115 Changeable Message Signs (Drum signs)

237 Variable Message Signs (when completed)

250 Traffic Cameras

STMC

NJ511

Emergency Speed Warning / Speed Limit Signs



Traffic Conditions

2.5 mile spacing



VMS – STMC

Communication Types

- NJTA Fiber Optic Backhaul (Wired)
- Fiber
- Broadband Wireless (Wimax, Red Line)
- Cellular

Full Matrix Color VMS Messages

- Follow MUTCD standards wherever possible
- Treat VMS displays as Guide Signs for color, text series/fonts, interline spacing and minimum text heights
- Post relevant information
- Library of commonly used messages

Warning Messages



Warning Messages

The screenshot displays a 'Play Message' interface with a sidebar on the left and a main content area on the right. The sidebar, titled 'Permanent messages', includes a 'Play permanent message' button and a 'Select new message' section with a tree view of folders: 'A- New', 'Closures', 'Delays', 'Delays (Other)', 'Delays (PA)', 'Fire Danger', 'GSP Dual - Dual', 'GSP Speed Reductions' (highlighted), and 'GWB Messages'. The main content area is titled 'Play Message' and contains a list of permanent messages. Each message entry includes a preview of the warning sign, the message text, the owner 'Eibel', and the page count 'Page(s): 1'. The messages listed are: '30 mph RSA Fog' (REDUCE SPEED 30 MPH FOG AHEAD), '35 mph RSA Fog' (REDUCE SPEED 35 MPH FOG AHEAD), '35 mph RSA Roadwork' (REDUCE SPEED 35 MPH ROADWORK AHEAD), '35 mph RSA Snow and Ice' (REDUCE SPEED 35 MPH SNOW - ICE), and '40 mph RSA Fog' (partially visible). A secondary panel on the right shows a list of message categories and their corresponding signs: 'RSA Roadwork' (REDUCE SPEED ROAD WORK AHEAD), 'RSA Smoke' (REDUCED VISIBILITY SMOKE-FIRE AHEAD DO NOT REPORT), 'RSA Snow' (REDUCE SPEED SNOW AHEAD), 'RSA Snow Plowing' (SNOW PLOWING AHEAD REDUCE SPEED), 'RSA Winter Driving Conditions' (WINTER DRIVING CONDITIONS REDUCE SPEED), 'Standing Water Ahead use caution' (STANDING WATER AHEAD USE CAUTION), and 'Winter Driving Conditions' (WINTER DRIVING).

Permanent messages

Play permanent message

Select new message

Matrix 96 x 336 Full Color

- A- New
- Closures
- Delays
- Delays (Other)
- Delays (PA)
- Fire Danger
- GSP Dual - Dual
- GSP Speed Reductions**
- GWB Messages

Play Message

Select and play a message on the selected display(s).

Permanent messages

Play permanent message

30 mph RSA Fog

REDUCE SPEED 30 MPH FOG AHEAD

Owner: Eibel

Page(s): 1

35 mph RSA Fog

REDUCE SPEED 35 MPH FOG AHEAD

Owner: Eibel

Page(s): 1

35 mph RSA Roadwork

REDUCE SPEED 35 MPH ROADWORK AHEAD

Owner: Eibel

Page(s): 1

35 mph RSA Snow and Ice

REDUCE SPEED 35 MPH SNOW - ICE

Owner: Eibel

Page(s): 1

40 mph RSA Fog

RSA's

Rutgers Stadium

Safety Messages

RSA Roadwork

REDUCE SPEED ROAD WORK AHEAD

Owner: Eibel

Page(s): 1

RSA Smoke

REDUCED VISIBILITY SMOKE-FIRE AHEAD DO NOT REPORT

Owner: Eibel

Page(s): 1

RSA Snow

REDUCE SPEED SNOW AHEAD

Owner: Eibel

Page(s): 1

RSA Snow Plowing

SNOW PLOWING AHEAD REDUCE SPEED

Owner: Eibel

Page(s): 1

RSA Winter Driving Conditions

WINTER DRIVING CONDITIONS REDUCE SPEED

Owner: Eibel

Page(s): 1

Standing Water Ahead use caution

STANDING WATER AHEAD USE CAUTION

Owner: Eibel

Page(s): 1

Winter Driving Conditions

WINTER DRIVING

Owner: Eibel

Construction Messages



Travel Times



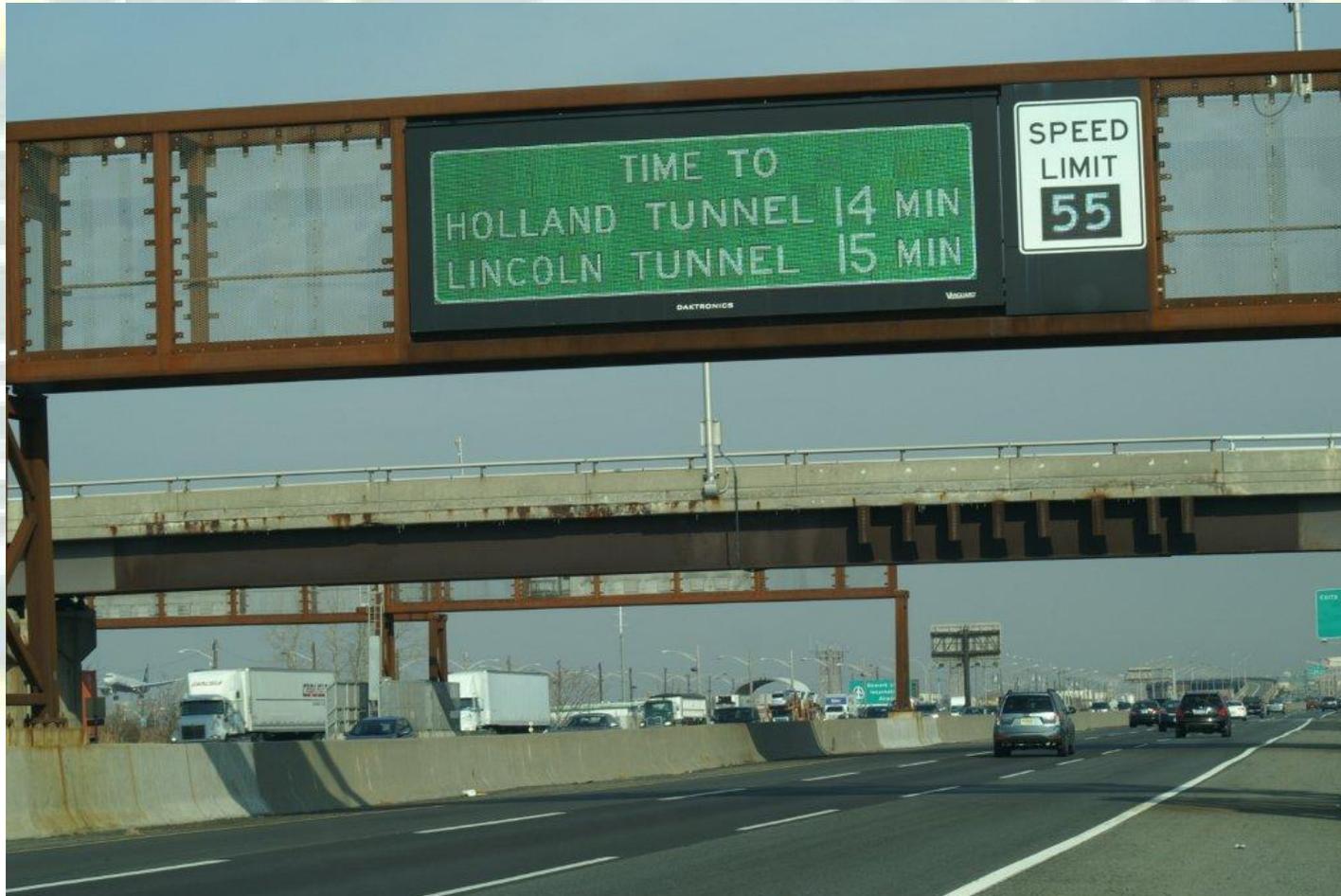
Travel Times



Travel Times



Travel Times



Travel Times



Travel Times



Construction/ Delays Messages

Play Message

Play Message

Select and play a message on the selected display(s).

Permanent messages

Play permanent message

Select new message

- Matrix 96 x 336 Full Color
 - A- New
 - Closures
 - Delays
 - Delays (Other)
 - Delays (PA)
 - Fire Danger
 - GSP Dual - Dual
 - GSP Speed Reductions
 - GWB Messages
 - LCS
 - MTA
 - PA
 - PNC
 - Roadwork
 - RSA's
 - Rutgers Stadium
 - Safety Messages

Bayonne Bridge Closed

BAYONNE BRIDGE CLOSED Owner: Eibel Page(s): 1

Bayonne Bridge closed Friday thru Mon

BAYONNE BR CLOSED FRI 9P - MON 5A Owner: Eibel Page(s): 1

Bayonne Bridge Closed Mon thru Fri

BAYONNE BR CLOSED MON - THURS 9P - 5A FRI 11:59P - SAT 8A Owner: Eibel Page(s): 1

Emerg Roadwork Bayonne Bridge

EMERGENCY ROADWORK BAYONNE BRIDGE USE ALT CROSSING Owner: Eibel Page(s): 1

George Washington Bridge Closed

GEORGE WASHINGTON BRIDGE CLOSED Owner: Eibel Page(s): 2

Goethals Bridge Closed

GOETHALS BRIDGE CLOSED Owner: Eibel Page(s): 1

GWB Upper Roadwork- Seek alternate route

GEORGE WASHINGTON BR MAJOR CONSTRUCTION Owner: Eibel

Construction/ Delays Messages

The screenshot displays a web application interface for 'SELY TOWNSHIP LOCAL AUTHORITY'. On the left is a navigation menu with the following items: Delays, Delays (Other) (highlighted with a blue border), Delays (PA), Fire Danger, GSP Dual - Dual, GSP Speed Reductions, GWB Messages, LCS, MTA, and PA. The main content area shows a list of delay messages:

- Delays I80 EAST**
 **MAJOR DELAYS EASTBOUND USE ALT RTE**
Owner: Elbel
Page(s): 1
- Delays Tappan Zee Bridge**
MAJOR DELAYS TAPPAN ZEE BRIDGE  
Owner: Elbel
Page(s): 1
- Major Delays Staten Island Expressway**
MAJOR DELAYS STATEN ISLAND EXPWY USE ALT ROUTE 
Owner: Elbel
Page(s): 1

Safety Messages



Safety Messages

Permanent messages
Play permanent message

Select new message

- GSP Dual - Dual
- GSP Speed Reductions
- GWB Messages
- LCS
- MTA
- PA
- PNC
- Roadwork
- RSA's
- Rutgers Stadium
- Safety Messages**
- Service Areas
- Special messages Amber, Events
- State Park Closures & Ferry
- TEST
- Tolls
- Tpk Temp Merge-Diverge
- Travel Time

Buckle Up America
Owner: Eibel
Page(s): 1
BUCKLE UP AMERICA

Buzzed Driving is Drunk Driving
Owner: Eibel
Page(s): 2
BUZZED DRIVING IS DRUNK DRIVING

Clear Snow and Ice
Owner: Eibel
Page(s): 1
STATE LAW REMOVE SNOW - ICE FROM VEHICLE

Click it or ticket
Owner: Eibel
Page(s): 1
CLICK IT OR TICKET

Drive Sober or get pulled over
Owner: Eibel
Page(s): 1
DRIVE SOBER OR GET PULLED OVER

Fans Don't lets Fan Drive Drunk
Owner: Eibel
Page(s): 2
FANS DON'T LET FANS DRIVE DRUNK

Headlights on wipers on
Owner: Eibel
Page(s): 1
STATE LAW HEADLIGHTS ON

Fire Danger

The screenshot displays a software interface for managing fire danger messages. On the left, a sidebar lists folders under 'Permanent messages' and 'Select new message'. The 'Fire Danger' folder is highlighted. The main area shows a list of message templates, each with a preview and metadata.

Message Template	Owner	Page(s)
CONTROLLED BURN DO NOT REPORT	Eibel	1
FIRE DANGER - EXTREME USE ASHTRAY NOT THE ROADWAY	Eibel	1
FIRE DANGER - HIGH USE ASHTRAY NOT THE ROADWAY	Eibel	1
FIRE DANGER VERY HIGH	Eibel	1

Service Area Messages

Permanent messages
Play permanent message

Select new message

- GSP Dual - Dual
- GSP Speed Reductions
- GWB Messages
- LCS
- MTA
- PA
- PNC
- Roadwork
- RSA's
- Rutgers Stadium
- Safety Messages
- Service Areas**
- Special messages Amber, Events
- State Park Closures & Ferry
- TEST
- Tolls
- Tpk Temp Merge-Diverge
- Travel Time

Message Title	Owner	Page(s)
FOR 50 MILES		
Monmouth Service Area no fuel 70.0 Sign	Eibel	1
FORKED RIVER SERVICE AREA LAST FUEL SERVICE FOR 50 MILES	Eibel	1
No diesel next service area	Eibel	1
NO DIESEL NEXT SERVICE AREA	Eibel	1
No food next service area	Eibel	1
NO FOOD NEXT SERVICE AREA	Eibel	1
No fuel next service area	Eibel	1
NO FUEL NEXT SERVICE AREA	Eibel	1
No gas next service area	Eibel	1
NO GAS NEXT SERVICE AREA	Eibel	1
Ocean View Service Area Closed	Eibel	1
OCEAN VIEW SERVICE AREA CLOSED	Eibel	1
S10S CLOSED NO SERVICES		
THOMAS EDISON SERVICE AREA	COMEN	

Event Messages

Permanent messages

Play permanent message

Select new message

Matrix 96 x 336 Full Color

- A- New
- Closures
- Delays
- Delays (Other)
- Delays (PA)
- Fire Danger
- GSP Dual - Dual
- GSP Speed Reductions
- GWB Messages
- LCS
- MTA
- PA
- PNC**
- Roadwork
- RSA's
- Rutgers Stadium
- Safety Messages

GSP 115.0 SNL After Show Merge

**HEAVY MERGE
1 MILE AHEAD
KEEP LEFT**

Owner: Eibel
Page(s): 1

GSP 115.0 SNL before show

**CONCERT TRAFFIC
USE BOTH LANES OF EXIT**

Owner: Eibel
Page(s): 1

GSP 118.3 NSX before show

**EVENT TRAFFIC
RIGHT LANE ONLY**

Owner: Eibel
Page(s): 1

GSP 118.5 NSL After Show Merge

**HEAVY MERGE
3 MILES AHEAD
KEEP LEFT**

Owner: Eibel
Page(s): 1

Hurricane Sandy

Plan and develop messaging for

- Roadway Impacts
 - High Winds
 - Surge / Tidal Flooding
 - Heavy Rain / Localized Flooding
- Evacuation Impacts
 - Evacuation orders / routing
 - State of Emergency
- Regional Impacts (TRANSCOM)

Pre Sandy Messaging

**STATE OF EMERGENCY
DUE TO
APPROACHING STORM**

**STATE OF EMERGENCY
IN EFFECT**

**NO TOLLS
PROCEED SLOWLY**

Sandy

- Put the plan into play
 - State of Emergency
 - Patron Safety
 - Areas prone to tidal flooding (Proactive closures)
 - Areas anticipated to flood (Reactive closures)
 - Regional Conditions

As Sandy approached

**NEW JERSEY UNDER
STATE OF EMERGENCY
CALL 511**

**ROADWAYS – BRIDGES
SUBJECT TO CLOSURE
AT ANY TIME**

**HURRICANE
WARNING
SEEK SHELTER**

As the facilities were impacted

**PARKWAY CLOSED
AT EXIT 38**

**PARKWAY CLOSED
AT EXIT 123**

**PARKWAY CLOSED AHEAD
USE ALTERNATE ROUTE**

**GEORGE WASHINGTON
BRIDGE CLOSED**

**HOLLAND TUNNEL
CLOSED**

**ALL NEW YORK
CROSSINGS CLOSED**

Afterwards: No Power - No Fuel

**FUEL RESTRICTION
EVEN ENDING PLATES
TODAY ONLY**

**FUEL RESTRICTION
ODD ENDING PLATES
TODAY ONLY**

Restoring Regional Mobility

**FREE SHUTTLE TO MIDTOWN
GSP EXIT 131A – METROPARK
6AM – 10AM**

**◇ HOV 3+ IN EFFECT
AT LINCOLN TUNNEL**

**LIMITED SEAPORT ACCESS
TUNE TO 1610 AM**

Lessons Learned

- Extended Power loss
- Back up power for Electronic signs
- Design Traffic Management systems for a Category 2 storm surge



Thank You

- Eibel@turnpike.state.nj.us
- Biront@turnpike.state.nj.us

