



# Emergency Procedures Roadmap

As of January 20, 2021

- Updated timing for the upcoming release
- Updated screenshots
- Added a link to demo of January 2021 enhancements
- Added a link to release notes page

Product - Action Required	Deadline	Who May Be Affected
<p>Enhancements released to Production. No action is necessary</p>	<p><b>January 27</b> <b>1 p.m. – 5 p.m.</b></p>	<p>Up to 30 minute outage to UI for users.</p>



2021												
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2020 Enhancements	◆ Production: Jan 27											

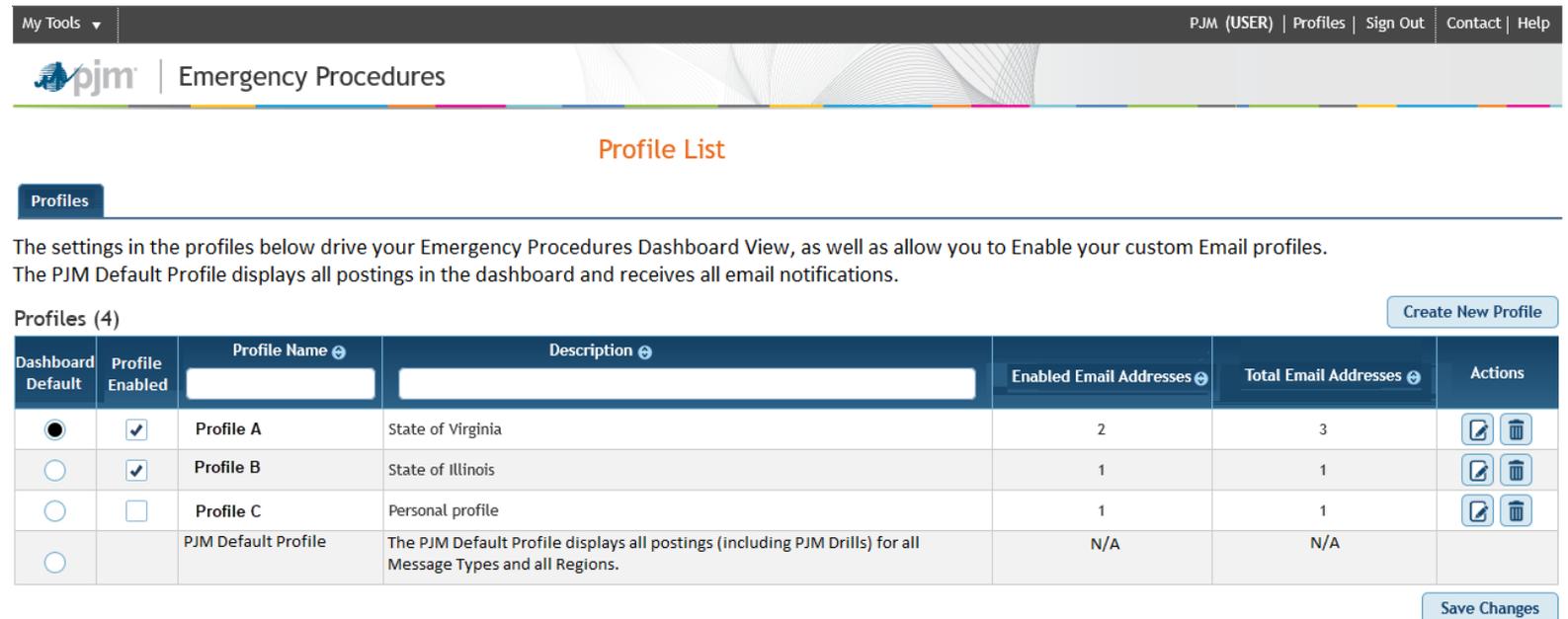
**Legend**

- Start Date
- ◆ End Date



- Allows for a more visual selection of messages
- Users can create multiple profiles
- Profile list allows users to easily edit a profile or add a new one
  - Users select a Profile that drives their dashboard view
- Profile selection also available on dashboard
- PJM Default profile sends emails for and displays all postings issued within the RTO
- Current profile selections will be migrated as initial user profiles
- Removal of unused Government Agency functionality

- Create new profiles to add custom messaging profiles
- Dashboard Default indicates which profile is selected for view upon login
- Profile Enabled indicates which profiles are set up to receive email notifications and are available for dashboard filtering



The screenshot shows the 'Profile List' page in the PJM system. At the top, there is a navigation bar with 'My Tools', 'PJM (USER)', 'Profiles', 'Sign Out', 'Contact', and 'Help'. Below this is a header for 'Emergency Procedures' and a sub-header 'Profile List'. A 'Profiles' tab is active, and a descriptive paragraph explains that profile settings drive the dashboard view and email notifications. A table lists four profiles: Profile A (State of Virginia), Profile B (State of Illinois), Profile C (Personal profile), and the PJM Default Profile. The table includes columns for 'Dashboard Default', 'Profile Enabled', 'Profile Name', 'Description', 'Enabled Email Addresses', 'Total Email Addresses', and 'Actions'. Profile A is the selected default and is enabled. A 'Create New Profile' button is in the top right, and a 'Save Changes' button is at the bottom right.

Dashboard Default	Profile Enabled	Profile Name	Description	Enabled Email Addresses	Total Email Addresses	Actions
<input checked="" type="radio"/>	<input checked="" type="checkbox"/>	Profile A	State of Virginia	2	3	 
<input type="radio"/>	<input checked="" type="checkbox"/>	Profile B	State of Illinois	1	1	 
<input type="radio"/>	<input type="checkbox"/>	Profile C	Personal profile	1	1	 
<input type="radio"/>		PJM Default Profile	The PJM Default Profile displays all postings (including PJM Drills) for all Message Types and all Regions.	N/A	N/A	

- Within each profile, users can select which Message Types and Regions they'd like to receive emails for
- Special Notice is selected by default for all user profiles

**Profile Settings**

Profile name \*  
Profile A

Description

Profile options:

Profile Enabled

Include PJM Diffs

Regions \* (0 of 24 total)  
All

Message types \*

Available message types (28)

- Emergency Energy Request
- Emergency Load Algmt Reduction Action
- Emergency Voluntary Energy Only Demand Response
- Gas Pipeline Contingencies
- Geomagnetic Disturbance Action
- Geomagnetic Disturbance Warning
- HLV Action
- HLV Warning
- High System Voltage
- Hot Weather Alert

Include PAI

Selected message types (1)

Special Notice

Updated from multi-select drop down

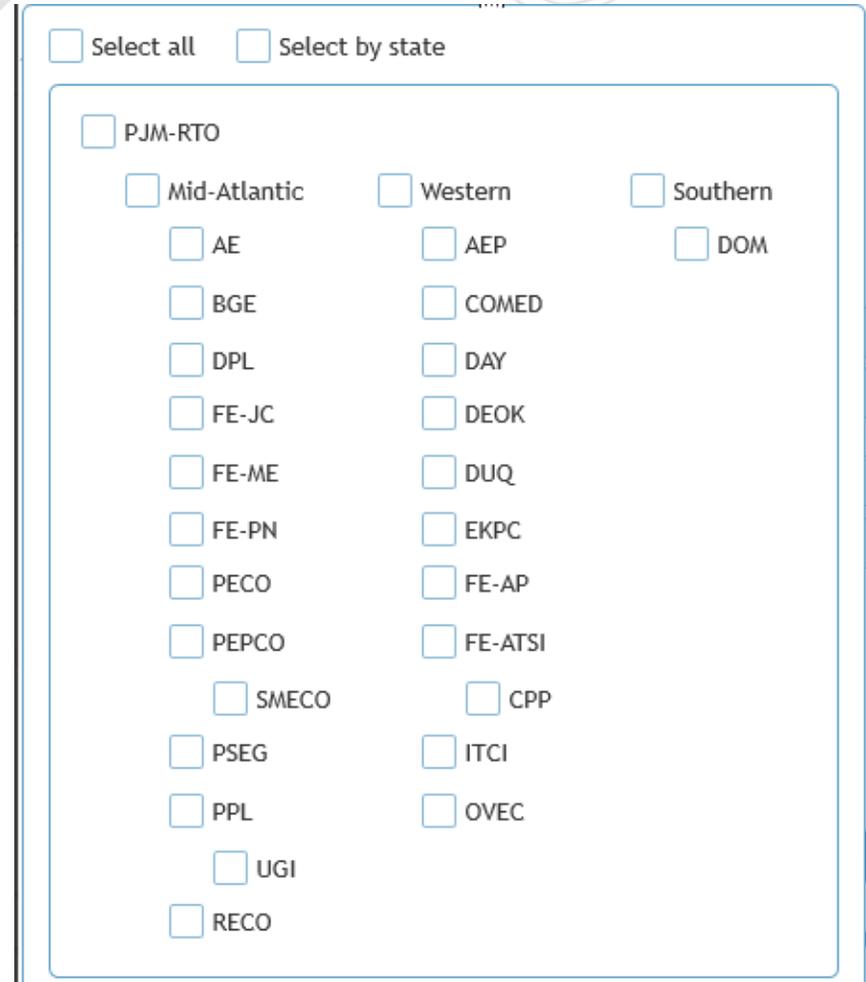
Email Addresses (3)

New email address  Add

Email Address	Enabled	Receive Full Text	Status	Actions
profileA@pjm.com	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Confirmed	
footers@gmail.com	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Confirmed	
pineapples@pjm.com	<input type="checkbox"/>	<input type="checkbox"/>	Enter confirmation code	

[Back to Profile List](#) [Save Profile](#)

- New Region drop down organized by region hierarchy
- Users will receive all messages that apply for the specific region(s) selected
  - E.g. If you only select DUQ, you will still get messages issued to Western and PJM RTO



The screenshot shows a web interface for selecting regions. At the top, there are two checkboxes: "Select all" and "Select by state". Below this is a large container for "PJM-RTO" with a checkbox. Underneath, there are three main categories: "Mid-Atlantic", "Western", and "Southern", each with a checkbox. Under "Mid-Atlantic" are: AE, BGE, DPL, FE-JC, FE-ME, FE-PN, PECO, PEPCO, SMECO, PSEG, PPL, UGI, and RECO. Under "Western" are: AEP, COMED, DAY, DEOK, DUQ, EKPC, FE-AP, FE-ATSI, CPP, ITCI, and OVEC. Under "Southern" is: DOM.

- Updates made to ensure PAI events are more easily understood
  - Dashboard banner will also include PAI start time

## Postings

Dashboard banner updated

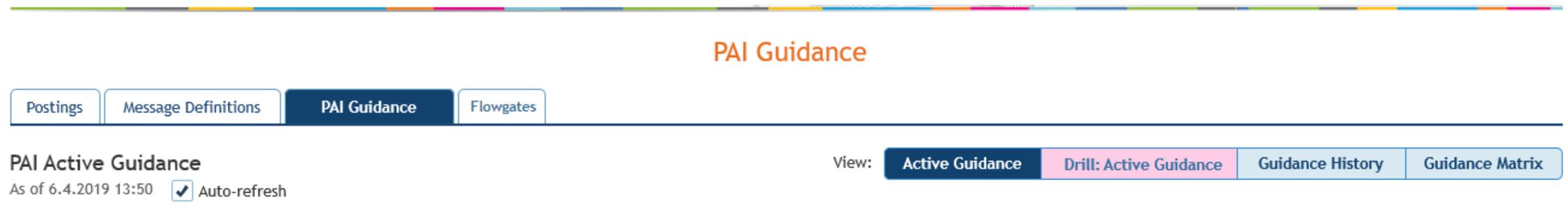
A Performance Assessment Interval is in effect in PJM as of 12.14.2020 22:01. See [PAI Active Guidance](#) for further information.

History	Msg ID	Priority	Message Type	Effective Start Time	Regions	Emergency Message	Effective End Time
	104532	Action	Pre-Emergency Load Mgmt Reduction Action	01.13.2021 09:59	<a href="#">DOM_YORKTOWN</a>	<p>See <a href="#">PAI Active Guidance</a> tab</p> <p>A Pre-Emergency Load Mgmt Reduction Action has been issued. Load reduction start times can be found by clicking on the hyperlink(s) in the Regions column. Load reductions should continue until released by PJM. Reductions are mandatory based on product requirements. CSPs should review DR Hub for specific registration details. Lead Time(s) dispatched: Quick_30 . Product (s) dispatched: Capacity Performance DR</p> <p>Additional Comments: SZ_DOM_YORKTOWN_1386523091</p>	
	104533	Action	Pre-Emergency Load Mgmt Reduction Action	01.13.2021 09:59	<a href="#">DOM_YORKTOWN</a>	<p>See <a href="#">PAI Active Guidance</a> tab</p> <p>A Pre-Emergency Load Mgmt Reduction Action has been issued. Load reduction start times can be found by clicking on the hyperlink(s) in the Regions column. Load reductions should continue until released by PJM. Reductions are mandatory based on product requirements. CSPs should review DR Hub for specific registration details. Lead Time(s) dispatched: Quick_30 . Product (s) dispatched: Capacity Performance DR</p> <p>Additional Comments: SZ_DOM_YORKTOWN_1386523091</p>	

Icons removed

Hyperlinks in matching format

- Combination of PAI Guidance Matrix and Drill/PAI Active Guidance
- Active Guidance will be displayed by default.
- Drill Active Guidance will only be displayed if there is an active Drill PAI message.
  - Drills do not occur during when a real-time PAI is in effect
- Guidance History is a newly available report.



The screenshot shows the PAI Guidance interface. At the top, the title "PAI Guidance" is displayed in orange. Below the title is a navigation bar with four tabs: "Postings", "Message Definitions", "PAI Guidance" (which is the active tab), and "Flowgates". Underneath the navigation bar, the text "PAI Active Guidance" is shown, followed by "As of 6.4.2019 13:50" and a checked "Auto-refresh" checkbox. To the right of this text is a "View:" section with four buttons: "Active Guidance" (the selected view), "Drill: Active Guidance", "Guidance History", and "Guidance Matrix".

- Collapsible lists of guidance, ordered by severity
- Users can disable auto-refresh

PAI Guidance

A Performance Assessment Interval is in effect in PJM as of 12.14.2020 22:01. See [PAI Active Guidance](#) for further information.

[Postings](#) | [Message Definitions](#) | [Message Priorities](#) | **PAI Guidance** | [Regions](#) | [Emergency Bid Form](#)

**PAI Active Guidance** View: [Active Guidance](#) | [Guidance History](#) | [Guidance Matrix](#)

As of 1.13.2021 10:07  Auto-refresh

▾ **Load Shed Directive Guidance (2)**

Zone ^	Applicable Time ↕	Message Type ↕	Msg ID ↕	Effective Start Time ↕
COMED	01.11.2021 16:38	Load Shed Directive	104513	1.11.2021 16:38
FE-JC	12.17.2020 12:12	Load Shed Directive	104478	12.17.2020 12:12

**Online Generator** On-line generators should follow PJM basepoints or manual dispatch instructions, if provided. On-line generators that underperform may be assessed a Non-Performance Charge. NOTE: On-line generators that produce MW above the PJM basepoint will not be eligible for Bonus Performance Credits. MW above the PJM basepoint may be assessed deviation charges.

**Offline Generator** On-line generators should follow PJM basepoints or manual dispatch instructions, if provided. On-line generators that underperform may be assessed a Non-Performance Charge. NOTE: On-line generators that produce MW above the PJM basepoint will not be eligible for Bonus Performance Credits. MW above the PJM basepoint may be assessed deviation charges.

**Pre-Emergency Load Management; Emergency Load Management** On-line generators should follow PJM basepoints or manual dispatch instructions, if provided. On-line generators that underperform may be assessed a Non-Performance Charge. NOTE: On-line generators that produce MW above the PJM basepoint will not be eligible for Bonus Performance Credits. MW above the PJM basepoint may be assessed deviation charges.

▸ **Dispatch All Resources Action Guidance (2)**

▸ **Base PAI Guidance (23)**

**No Active Guidance (6)**

There is no active guidance for the following transmission zones.

CPP  
DEOK  
DUQ  
FE-AP  
ITCI  
OVEC

- Users can search previously issued PAI messages
- Drills are highlighted in pink
  - Not in default view

PAI Guidance

A Performance Assessment Interval is in effect in PJM as of 12.14.2020 22:01. See [PAI Active Guidance](#) for further information.

Postings
Message Definitions
Message Priorities
PAI Guidance
Regions
Emergency Bid Form

PAI Guidance History
View: Active Guidance Guidance History Guidance Matrix

Effective From \*  Effective To \*  PJM Drill  Include

Zone	Category	Applicable Time	End Time	Message Type	Msg ID	Effective Start Time
DOM	Base PAI	01.13.2021 10:29		Pre-Emergency Load Mgmt Reduction Action	104532	1.13.2021 09:59
DOM	Base PAI	01.13.2021 10:29		Pre-Emergency Load Mgmt Reduction Action	104533	1.13.2021 09:59
DOM	Base PAI	01.12.2021 13:40		Emergency Load Mgmt Reduction Action	104525	1.12.2021 12:40
DOM	Base PAI	01.12.2021 13:40	1.12.2021 14:00	Emergency Load Mgmt Reduction Action	104526	1.12.2021 12:40
AECO	Base PAI	01.12.2021 13:17		Pre-Emergency Load Mgmt Reduction Action	104527	1.12.2021 12:47
AECO	Base PAI	01.12.2021 13:17	1.12.2021 14:00	Pre-Emergency Load Mgmt Reduction Action	104528	1.12.2021 12:47
COMED	Base PAI	01.12.2021 13:17		Pre-Emergency Load Mgmt Reduction Action	104527	1.12.2021 12:47
COMED	Base PAI	01.12.2021 13:17	1.12.2021 14:00	Pre-Emergency Load Mgmt Reduction Action	104528	1.12.2021 12:47
DAY	Base PAI	01.12.2021 13:17		Pre-Emergency Load Mgmt Reduction Action	104527	1.12.2021 12:47
DAY	Base PAI	01.12.2021 13:17	1.12.2021 14:00	Pre-Emergency Load Mgmt Reduction Action	104528	1.12.2021 12:47
EKPC	Base PAI	01.12.2021 13:17		Pre-Emergency Load Mgmt Reduction Action	104527	1.12.2021 12:47
EKPC	Base PAI	01.12.2021 13:17	1.12.2021 14:00	Pre-Emergency Load Mgmt Reduction Action	104528	1.12.2021 12:47
DOM	Base PAI	01.12.2021 13:09		Emergency Load Mgmt Reduction Action	104530	1.12.2021 13:09
AECO	Load Shed Directive	01.11.2021 16:40	1.13.2021 10:03	Load Shed Directive	104514	1.11.2021 16:40
AEP	Load Shed Directive	01.11.2021 16:40	1.13.2021 10:03	Load Shed Directive	104514	1.11.2021 16:40

- **User Profile Enhancements**
  - Ability for users to set up profiles and manage preferences for their dashboard view, summary view of profile selections and ability to manage email notifications per profile
- **Zone/Region Hierarchy**
  - Functionality to view and apply the hierarchy between EP regions
- **PAI Enhancements**
  - Enhancements to the PAI functionality and reports resulting from October 2019 PAI events feedback.
- **Removal of unused Government Agency functionality**

- Demonstration available [here](#).
- Release notes available [here](#).



# Product Details

The Emergency Procedures tool informs PJM members, PJM personnel and other interested parties about important and/or emergency events as they occur within the PJM Regional Transmission Organization (RTO). Examples of emergency events include hot weather alerts, transmission loading relief (TLR) procedures and minimum generation events.

## **Key Product Features**

- Allows PJM dispatchers and reliability coordinators to post emergency procedures messages for all to see.
- User access, which permits email notification setup, to Emergency Procedures is available in Account Manager.
  - Guest access is also available via the Guest Sign In.