



Winter Fuel Supply

Reliability Subcommittee

December 12, 2021

Purpose & Key Takeaways



Purpose: Summarize fuel concerns/actions for upcoming winter

Key Takeaways:

- Fuel and consumables supply chain concerns for winter
- MISO implementing weekly data request

Expected elevated coal/oil/gas fuel supply risk for the winter season

- Coal survey estimated that ~20%, ~11 GW, of coal generation fleet capacity is at high risk
- Lack of incremental coal, transport and emission control consumables
- Implementing a required weekly coal/fuel oil generator data request to assess and manage risk
- IMM has been contacted by ~15 companies to discuss concerns with ~14 GW of coal generation
- Natural gas storage at historic norms. Pipeline status is monitored daily as more units running as base load

Coal Generation Risk Assessment

- Assessment of survey responses for 22 companies, representing 43.3 GW of 52.6 GW of coal generation
- Coal and transportation companies
 - No excess capacity to meet higher demand/spot purchases
 - Unlikely to change due to lack of equipment/workers/new investment
- Emission control consumables also have supply/transportation issues (noted by 5 companies)

Risk Type	Sufficient Contracts in Place (GW)	Contract Fulfillment Concern (GW)	Spot Purchases Needed (GW)	Spot Purchase Ability/Need (GW)
High	9.3	17.6	9.0	18.5
Med/Low	4.2	3.2	7.2	9.8
None	29.8	22.5	27.1	15.0

Weekly Data Request

- Required per NERC EOP-011 R2.2.3.2 and Tariff section 38.2.5.a
- Confidential – individual responses not shared publicly
- MISO will use info in its function as Reliability Coordinator including coordination with other RCs

Weekly Data Request Questions

- Units registered in commercial model with the following fuel types: coal, coal/oil coal/gas, oil, oil/gas and pet coke.
 - Weekly from Monday thru Sunday
 - Same six questions asked for fuel and consumables
1. How many hours can the unit run at eco max based on current fuel supply accounting for multi-unit sites? - **Hours**
 2. Is the site anticipating any challenges or delay in fuel procurement? - **Yes/No**
 3. If 2)=Yes: Describe the challenges you are seeing. - **Free form field**
 4. When does their next scheduled fuel delivery expected to arrive? - **Date**
 5. With that fuel delivery, how many additional run hours do you expect? - **Hours**
 6. If needed, could you procure fuel before your next fuel delivery? - **Yes/No**

Contact Information

- Mike Mattox (mmattox@misoenergy.org)
- Donations to Santa Claus:
123 Elf Road, North Pole, 88888



Appendix

Weekly Coal Data Request

- Submitted/viewable by those with “DART Operational (submit)” access at Asset Owner Level (i.e. can submit bids/offers)
- Access granted by a company’s LSA (Local Security Administrator)

The screenshot displays the 'Asset Owner User Roles' configuration page. At the top, there are buttons for 'Show Inactive AOs', 'Expand All', and 'Collapse All'. Below this is a dropdown menu for selecting an Asset Owner (AO) and a date range selector for 'Start Date: Nov 1, 2004' and 'End Date:'. The main content area is divided into two columns: 'Available Roles (22):' and 'Assigned Roles (0):'. In the 'Available Roles' list, the role 'DART: Operational (submit)' is selected with a checked checkbox and is highlighted with a red box. In the 'Assigned Roles' column, there are two blue arrows: a right-pointing arrow at the top and a left-pointing arrow at the bottom, both also highlighted with red boxes.

Asset Owner User Roles

Show Inactive AOs Expand All Collapse All

Start Date: Nov 1, 2004 End Date:

Available Roles (22):

- Asset Registration Tool (view)
- DART: API Spec (view)
- DART: Market/Scheduling (submit)
- DART: Market/Scheduling (view)
- DART: Notification URLs (submit)
- DART: Notification URLs (view)
- DART: Operational (submit)
- DART: Operational (view)
- DART: Public Data (view)
- DART: Transaction Log (view)

Assigned Roles (0):

Weekly Coal Data Request

Market Portal

MISO Applications

Search

Fuel + Consumables Data Request
Allows users to provide weekly fuel and consumables data based on current operating conditions.
[Launch](#)

Help Center (Service Request)
Allows users to search our knowledge base and submit cases/inquiries on a variety of topics including Settlements, FTR, Credit, and Market Disputes.
[Find Past Service Re...](#) [Launch Help Center](#)

MUI 2.0 Member Readiness
Provides participants with a tool to communicate readiness for the transition to the Market User Interface (MUI) 2.0.
[Launch](#)

Market User Interface (MUI)
Allows users to transact with the MISO DART Energy and Ancillary Services Market by submitting market transactions and querying market results.
[Launch MUI](#) [Launch MUI 2.0](#)
[Submit IR Forecast](#)

OATI OASIS and webTrans
OATI hosts MISO OASIS and webTrans solutions which allow customers to manage scheduling, tagging, OASIS activities, outage management, congestion, and reserves. Companies must be registered with OATI to access these systems.
[OASIS Login](#) [webTrans Login](#)

v2.2 8-33 (DEV)

Weekly Coal Data Request

MISO Fuel + Consumables Data Request Test User 12/06/2021 11:59 EST

Current request
Monday 12/06/2021 to Sunday 12/12/2021 **Weekly Submittal** 3/10 Updated

Asset Owner	Asset Name	Commercial Pricing Node	Last Updated Time	Last Updated By
●			Monday 12/06/2021 14:05 EST	12345 1aouser Update
●			Monday 12/06/2021 16:19 EST	12345 1aouser Update
●			Monday 12/06/2021 16:37 EST	12345 1aouser Update
●			-	- Update
●			-	- Update

Items per page: 5 - 5 of 10

Fuel+Consumables Data Request | 1.0.0 | 0.0.1-18

Weekly Coal Data Request

Fuel + Consumables Data for [Redacted]

For week 2021-12-06 ~ 2021-12-12

Fuel

FUEL

Consumables

Please respond with best available information and estimates as needed. Concerns with estimates/answers may be communicated in the response regarding any challenges.

1. How many hours can the unit run at eco max based on current fuel supply, accounting for multi-unit sites?

2. Is the site anticipating any challenges or delay in fuel procurement?

Yes

No

3. Describe the challenges you are seeing.

[Redacted]

Monday 12/06/2021 00:00 to
Sunday 12/12/2021 23:59

Fuel

Consumables

CONSUMABLES

Consumables can be any non-fuel items that are needed for the operation of your generator. For example this would include, but is not limited to, reagents for emission control equipment.

1. How many hours can the unit run at eco max based on current consumables supply, accounting for multi-unit sites?

2. Is the site anticipating any challenges or delay in consumables procurement?

- Yes
- No

3. Describe the challenges you are seeing.

Coal Generation Risk Assessment Survey

Thinking about the upcoming winter season for coal generation.....

- 1) Do you have coal and transportation contracts in place to meet your anticipated needs?
- 2) For coal and transportation already contracted for, please describe any supplier or transportation (please specify type(s) of transport) concerns you have regarding fulfillment of those contracts.
- 3) Do you anticipate needing to make spot coal purchases?
- 4) Please describe any concerns you have in your ability to make spot purchases and associated transportation (please specify type(s) of transport).
- 5) If you expect difficulty in obtaining coal or transportation whether already purchased or spot purchases, when do you expect this to be resolved?
- 6) Do you have other supply chain or concerns in general for coal generation this coming winter?