

OP-21 Energy Inventory Accounting and Actions During an Energy Emergency

Appendix A: Generator Survey

Contact Information

| | | | |
|------|---------------|----------------------|---|
| 2001 | Your Name | <input type="text"/> | enter your name for questions about this survey |
| 2002 | phone number | <input type="text"/> | enter phone number |
| 2003 | email address | <input type="text"/> | enter email address |

Generator Information

| | | | |
|------|---|----------------------|------------------|
| 2004 | Generator Name (3 or 4 character asset name) <i>This survey is being sent to generators that ISO New England is aware of having the ability to burn oil or coal. If this generator is not capable of burning oil or coal, please explain what changes have been made at the bottom of this survey.</i> | <input type="text"/> | select unit |
| 2005 | Do you have plans to retire the ability to burn coal or oil within two months? | <input type="text"/> | select yes or no |

Oil Inventory

| | | | | |
|------|---|----------------------|----------------------|-------------|
| 2006 | What is the station's maximum useable storage capacity? | <input type="text"/> | enter gallons | |
| 2007 | What is the current useable inventory of oil on site at this moment? | <input type="text"/> | enter gallons | |
| 2008 | Do you have plans to order more oil within the next two months? | <input type="text"/> | select yes or no | |
| 2009 | If so, what is the expected date of receipt? | <input type="text"/> | enter date | |
| 2010 | What quantity has been ordered? | <input type="text"/> | enter gallons | |
| 2011 | Is the fuel supplier under contract for guaranteed delivery ? | <input type="text"/> | select yes or no | |
| 2012 | Has an alternate supplier been identified in case of failure of your primary delivery source? | <input type="text"/> | select yes or no | |
| 2013 | Assuming normal replenishment methods, what is the maximum output this generator can sustain indefinitely? | <input type="text"/> | enter MW | |
| 2014 | How long does it take for fuel to arrive after placing an order? | <input type="text"/> | enter days | |
| 2015 | If fuel replenishment is on a set schedule, how much time occurs between replenishments? Enter 9999 if not. | <input type="text"/> | enter days | |
| 2016 | What is the maximum volume of oil that can be delivered in a single shipment? Enter 9999 if no limit. | <input type="text"/> | enter gallons | |
| 2017 | At what typical oil level is a replenishment ordered? | <input type="text"/> | enter gallons | |
| 2020 | Select all of the generator assets that share this oil inventory. | Unit 1 | <input type="text"/> | select unit |
| 2021 | | Unit 2 | <input type="text"/> | select unit |
| 2022 | | Unit 3 | <input type="text"/> | select unit |
| 2023 | | Unit 4 | <input type="text"/> | select unit |
| 2024 | | Unit 5 | <input type="text"/> | select unit |
| 2025 | | Unit 6 | <input type="text"/> | select unit |
| 2026 | | Unit 7 | <input type="text"/> | select unit |
| 2027 | | Unit 8 | <input type="text"/> | select unit |

Coal Inventory

| | | | |
|------|---|--------|------------------|
| 2028 | What is the station's maximum storage capacity for coal? | | enter tons |
| 2029 | What is the current inventory of coal on site at this moment? | | enter tons |
| 2030 | Do you have plans to order more coal within the next two months? | | select yes or no |
| 2031 | If so, what is the expected date of receipt? | | enter date |
| 2032 | What quantity has been ordered? | | enter tons |
| 2033 | Is the fuel supplier under contract for guaranteed delivery ? | | select yes or no |
| 2034 | Has an alternate supplier been identified in case of failure of your primary delivery source? | | select yes or no |
| 2035 | Assuming normal replenishment methods, what is the maximum output this generator can sustain indefinitely? | | enter MW |
| 2036 | How long does it take for fuel to arrive after placing an order? | | enter days |
| 2037 | If fuel replenishment is on a set schedule, how much time occurs between replenishments? Enter 9999 if not. | | enter days |
| 2038 | What is the maximum amount of coal that can be delivered in a single shipment? Enter 9999 if no limit. | | enter tons |
| 2039 | At what typical coal level is a replenishment ordered? | | enter tons |
| 2042 | Select all of the generator assets that share this coal inventory. | Unit 1 | select unit |
| 2043 | | Unit 2 | select unit |
| 2044 | | Unit 3 | select unit |
| 2045 | | Unit 4 | select unit |
| 2046 | | Unit 5 | select unit |
| 2047 | | Unit 6 | select unit |
| 2048 | | Unit 7 | select unit |

Additional Information

| | | | |
|------|--|--|-----------------|
| 2049 | <p>Have any of your fuel supply procurement processes been compromised for any reason? Reasons include but are not limited to:</p> <ul style="list-style-type: none"> • Lack of refinement capability from your supplier • Limited trucking capability • Navigational issues <p>If so, please use this space to describe.</p> | | free form entry |
| 2053 | <p>Additional Comments: Any additional information that you would like to provide to ISO New England System Operations at this time?</p> | | free form entry |

Dual Fuel Units

| | | | |
|------|--|--|------------------|
| 2056 | <p>What are your manufacturer's dual fuel switch testing requirements? If none, write "None".</p> | | free form entry |
| 2062 | <p>Is the generator capable of starting up without natural gas?</p> | | select yes or no |
| 2063 | <p>How many startups can this generator perform daily on the alternate fuel? Enter 9999 if unlimited.</p> | | enter number |
| 2064 | <p>What is the weekly limit for startups on the alternate fuel? Enter 9999 if unlimited.</p> | | enter number |
| 2065 | <p>Can the generator operate on both fuels simultaneously?</p> | | select yes or no |
| 2066 | <p>Does extended continuous operation on the alternate fuel impose any additional maintenance requirements that would impact the availability of the unit? If yes, please provide details on the nature of the maintenance required and anticipated impacts.</p> | | free form entry |

Fuel Burn

2068 How much oil did this unit burn since completion of the last survey? enter gallons

Environmental/Emission Information

2069 Does the station have any environmental or emissions limitations that may impact the availability of the generators at this station? If yes, please provide details in Questions 2070-2078 below. select yes or no

2070 For the **most** limiting emissions limit at this time, what is the pollutant? select pollutant

2071 For the **most** limiting emissions limit at this time, what is the limit periodicity? select periodicity

2072 For the **most** limiting emissions limit at this time, how much of the limit is remaining? enter lbs

2073 For the **most** limiting emissions limit at this time, is there any additional information you would like to provide at this time? free form entry

2074 For the **second most** limiting emissions limit at this time, what is the pollutant? select pollutant

2075 For the **second most** limiting emissions limit at this time, what is the limit periodicity? select periodicity

2076 For the **second most** limiting emissions limit at this time, how much of the limit is remaining? enter lbs

2077 For the **second most** limiting emissions limit at this time, is there any additional information you would like to provide at this time? free form entry

2078 Are there any additional environmental limitations at this time? (seasonal permitting, water restrictions, etc.) If yes, please provide details of the nature of the limitation and any anticipated impacts it may cause. free form entry

OP-21 APPENDIX A REVISION HISTORY

| Rev. No. | Date | Reason |
|----------|------------|---|
| Rev 0 | 11/4/2005 | |
| Rev 1 | 10/13/2006 | Revised OP for permanent use |
| Rev 2 | 8/28/2014 | Revised document for monthly Fuel Inventory Report and new OP-21 format |
| Rev 3 | 5/19/2015 | Revised to add clarification regarding environmental constraints and added the monthly fuel burn section, question 2068 |
| Rev 3.1 | 6/15/2016 | Periodic review performed requiring no changes |
| Rev 3.2 | 2/26/2018 | Periodic review performed requiring no changes |
| Rev 4 | TBD | Revised for new emissions questions and to remove questions for which answers can be sourced from other databases |