

# MISO Fuel & Consumables Data Request

## **Role Required in SS-LSA:**

DART: Operational (submit)

## **User Interface Access:**

VIA Application Launcher Cards/Menu: Fuel + Consumables Data Request > Launch

PROD Direct URL: <https://markets.midwestiso.org/fuelconsumablerequest/>

CCE Direct URL: <https://cce.midwestiso.org/fuelconsumablerequest/>

## **Swagger UI:**

<https://markets.midwestiso.org/fuelconsumablerequestservice/swagger-ui/index.html>

## **API Access:**

### **POST:**

PROD: <https://markets.midwestiso.org/fuelconsumablerequestservice/fuelandconsumables/api/>

CCE: <https://cce.midwestiso.org/fuelconsumablerequestservice/fuelandconsumables/api/>

### **GET:**

PROD: <https://cmarkets.midwestiso.org/fuelconsumablerequestservice/fuelandconsumables/cpnode?cpNodeName=NODE>

CCE: <https://cce.midwestiso.org/fuelconsumablerequestservice/fuelandconsumables/cpnode?cpNodeName=NODE>

## Example POST:

```
{
  "nercId": "NERC",
  "cpNodeName": "CPNODE",
  "commonAssetName": "ASSETNAME",
  "assetOwner": "ASSETOWNER",
  "fuelHoursAtCurrentSupply": -2,
  "fuelHoursAtCurrentSupplyAmount": 3,
  "fuelExpectedDeliveryOption": -1,
  "fuelExtraHoursWithExpectedDelivery": null,
  "fuelAcceleratedProcure": null,
  "consumableSupplyOption": -3,
  "consumableSupplyOptionAmount": 100,
  "consumableExpectedDeliveryOption": -4,
  "consumableExpectedDeliveryAmount": 105,
  "consumableAcceleratedProcure": -2,
  "envHasRestrictionLimits": -1,
  "envEcoMaxHours": 60,
  "envHasRestrictionWaived": -3,
  "envHasChallenges": -1,
  "envChallengeDescription": "DESCRIPTION",
  "cpNodeStatus": 1,
  "dataRequestStatusId": 1
}
```

## Fuel Data JSON Key Guide:

| Key                                   | Data Allowed           | Data Description                                                                 | Context                                                             | Required?                                                    | UI Equivalent           |
|---------------------------------------|------------------------|----------------------------------------------------------------------------------|---------------------------------------------------------------------|--------------------------------------------------------------|-------------------------|
| <b>nercId</b>                         | NERC ID                |                                                                                  | NERC ID                                                             | Yes                                                          | NERC ID                 |
| <b>cpNodeName</b>                     |                        |                                                                                  | CPNode                                                              | Yes                                                          | Commercial Pricing Node |
| <b>assetOwner</b>                     |                        |                                                                                  | Asset Owner                                                         | Yes                                                          | Asset Owner             |
| <b>commonAssetName</b>                |                        |                                                                                  |                                                                     | Yes                                                          | Common Name             |
| <b>fuelHoursAtCurrentSupply</b>       | -1                     | No Limit Based on Nature of Supply                                               | Input either -1 or -2                                               | Yes                                                          | FUEL Question 1         |
|                                       | -2                     | Unit can operate for the hours provided in <b>fuelHoursAtCurrentSupplyAmount</b> |                                                                     |                                                              |                         |
| <b>fuelHoursAtCurrentSupplyAmount</b> | Positive Integer; null |                                                                                  | The number of hours the unit can operate the amount of fuel it has. | Yes, if <b>fuelHoursAtCurrentSupply</b> = -2; Otherwise Null | FUEL Question 1: HOURS  |

|                                           |                        |                                                                                                     |                                                                                                            |                                                                                                                                  |                               |
|-------------------------------------------|------------------------|-----------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|-------------------------------|
| <b>fuelExpectedDeliveryOption</b>         | -1                     | No Limit Based on Nature of Supply                                                                  | How many additional hours can the unit operate based on fuel deliveries occurring in the next three weeks? | Yes                                                                                                                              | FUEL Question 2               |
|                                           | -2                     | No Deliveries are Scheduled                                                                         |                                                                                                            |                                                                                                                                  |                               |
|                                           | -3                     | Deliveries are scheduled on an as-needed basis                                                      |                                                                                                            |                                                                                                                                  |                               |
|                                           | -4                     | Unit can operate for the hours provided in <b>fuelExtraHoursWithExpectedDelivery</b>                |                                                                                                            |                                                                                                                                  |                               |
| <b>fuelExtraHoursWithExpectedDelivery</b> | Positive Integer; null |                                                                                                     | How many hours can the unit operate based on fuel delivery in the next three weeks.                        | Yes, if <b>fuelExtraHoursWithExpectedDelivery</b> = -4; Otherwise Null                                                           | FUEL Question 2: HOURS        |
| <b>fuelAcceleratedProcure</b>             | -1                     | Additional fuel can be procured                                                                     | Can fuel be obtained faster, if needed?                                                                    | Yes, if <b>fuelHoursAtCurrentSupply</b> or <b>fuelExpectedDeliveryOption</b> are <b>NOT</b> set to -1 (No Limit); otherwise Null | FUEL Question 3               |
|                                           | -2                     | Additional fuel <b>cannot</b> be procured                                                           |                                                                                                            |                                                                                                                                  |                               |
|                                           | -3                     | Unknown                                                                                             |                                                                                                            |                                                                                                                                  |                               |
| <b>consumableSupplyOption</b>             | -1                     | No Limit Based on nature of consumables supply                                                      | If applicable, is this unit limited based on its current consumable supply.                                | Yes                                                                                                                              | CONSUMABLES Question 4        |
|                                           | -2                     | Not Applicable; Unit does not use Consumables                                                       |                                                                                                            |                                                                                                                                  |                               |
|                                           | -3                     | Unit does use Consumables and can operate at number of hours in <b>consumableSupplyOptionAmount</b> |                                                                                                            |                                                                                                                                  |                               |
| <b>consumableSupplyOptionAmount</b>       | Positive Integer; null |                                                                                                     | How many hours can it operate based on <b>consumableSupplyOption</b> response                              | Yes, if <b>consumableSupplyOption</b> = -3; otherwise Null                                                                       | CONSUMABLES Question 4: HOURS |

|                                  |                        |                                                                                                                               |                                                                                                                         |                                                   |                               |
|----------------------------------|------------------------|-------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------|-------------------------------|
| consumableExpectedDeliveryOption | -1                     | No limit based on nature of consumable supply delivery for the next three weeks                                               | Is there a limit based on nature of consumable supply.                                                                  | Yes, unless consumableSupplyOption is equal to -2 | CONSUMABLES Question 5        |
|                                  | -2                     | No deliveries are scheduled over the next three weeks                                                                         |                                                                                                                         |                                                   |                               |
|                                  | -3                     | Deliveries are scheduled on an as-needed basis                                                                                |                                                                                                                         |                                                   |                               |
|                                  | -4                     | Unit can operate based on expected consumable delivery for the next three weeks for hours in consumableExpectedDeliveryAmount |                                                                                                                         |                                                   |                               |
| consumableExpectedDeliveryAmount | Positive Integer; null |                                                                                                                               | If consumables are scheduled to be delivered within the next three weeks, how much more operating time does that allow. | Yes, if consumableExpectedDeliveryOption = -4     | CONSUMABLES Question 5: HOURS |
| consumableAcceleratedProcure     | -1                     | Consumable delivery schedule can be accelerated                                                                               | Can more consumable be procured?                                                                                        | Yes, unless consumableSupplyOption = -2           | CONSUMABLES Question 6        |
|                                  | -2                     | consumable delivery schedule cannot be accelerated                                                                            |                                                                                                                         |                                                   |                               |
|                                  | -3                     | Unsure if consumable delivery schedule can be accelerated                                                                     |                                                                                                                         |                                                   |                               |
| envHasRestrictionLimits          | -1                     | Yes, there are environmental restrictions                                                                                     | Are there limits on the unit based on                                                                                   | Yes                                               | ENVIRONMENTAL Question 7      |

|                                |                        |                                                                  |                                                                               |                                                                                       |                                       |
|--------------------------------|------------------------|------------------------------------------------------------------|-------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------|
|                                | -2                     | No, there are not environmental restrictions                     | environmental restrictions?                                                   |                                                                                       |                                       |
| <b>envEcoMaxHours</b>          | Positive Integer; null |                                                                  | How many hours can the unit operate with environmental restrictions in place? | Yes, if <b>envHasRestrictionLimits</b> = -1<br>(there are environmental restrictions) | ENVIRONMENTAL Question 7b             |
| <b>envHasRestrictionWaived</b> | -1                     | Restrictions can be waived or relaxed by Reliability Coordinator | Can environmental restrictions be waived by a Reliability Coordinator?        | Yes, if <b>envHasRestrictionLimits</b> = -1<br>(there are environmental restrictions) | ENVIRONMENTAL Question 7c             |
|                                | -2                     | Restrictions cannot be waived or relaxed                         |                                                                               |                                                                                       |                                       |
|                                | -3                     | Unsure if restrictions can be waived or relaxed                  |                                                                               |                                                                                       |                                       |
| <b>envHasChallenges</b>        | -1                     | Unit is experiencing or anticipating challenges and/or delays    | Are there environmental challenges.                                           | Yes                                                                                   | ENVIRONMENTAL Question 8              |
|                                | -2                     | There are no challenges                                          |                                                                               |                                                                                       |                                       |
| <b>envChallengeDescription</b> | Text                   | Description of challenge                                         | Please describe the environmental challenge.                                  | Yes, if <b>envHasChallenges</b> = -1<br>(Experiencing challenges or delays)           | ENVIRONMENTAL Question 8: Description |
| <b>cpNodeStatus</b>            | 1                      |                                                                  |                                                                               | Yes                                                                                   | N/A                                   |
| <b>dataRequestStatusId</b>     | 1                      |                                                                  |                                                                               | Yes                                                                                   | N/A                                   |