



WREGIS

Interface Control Document State, Provincial, and Voluntary Programs

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1. Overview

The Interface Control Document (ICD) contains the protocol for collecting and transferring generator *eligibility* data from participating renewable energy Generating Units to the Western Renewable Energy Generation Information System (WREGIS) application for verifying eligibility within specific state/provincial or voluntary renewable energy programs. This Interface Control Document identifies the guidelines and procedures that must be followed to ensure accurate program eligibility information is provided to the Program Administrators, end users that may need to retire WREGIS Certificates, and the Generating Units that are requesting eligibility.

Any state, provincial, or voluntary renewable energy program (Program) that uses WREGIS to track compliance with the program's requirements should follow this protocol to interface with WREGIS. This protocol outlines the processes by which a Program will establish and maintain a relationship with WREGIS to fully use the available functionality.

2. Process Information

WREGIS Program Application

To use WREGIS, a Program must first be registered for a WREGIS Account as a Program Administrator Account Holder, following standard registration procedures.

Change Requests and System Modifications

If a Program Administrator determines a need for system changes or modifications to fulfill the program objectives, the administrator should follow the change control process. The Program may be charged a change fee associated with development and implementation costs. System modifications to data fields — including fuel type, fuel source, and eligibility characteristics, as well as adding additional Retirement reason codes or defining custom reports — must be approved by WREGIS, as required by applicable standard procedures and governing documents. It is the sole responsibility of the Program Administrator Account Holder to contact the WREGIS Administrator and initiate change requests. The WREGIS Administrator must approve all change requests and determine budget impacts before any changes or system modifications can be implemented.

Program Eligibility Verification

The following process outlines how Program Administrators will verify and confirm Generating Unit eligibility claims for their Programs. During registration, Generating Unit Account Holders will indicate the programs for which they claim they are qualified. It is the sole responsibility of the Program Administrators to verify and formally approve qualification claims before the system will officially recognize eligibility and assign the qualification claim to WREGIS Certificates. Updates to program eligibility claims are the responsibility of the Generating Unit Account Holders. Updates to program eligibility and associated qualifications are the responsibility of the applicable Program Administrator.

Program Administrators will use their WREGIS login and password to access the WREGIS System and load the eligibility data through the designated module in the Program Administrator's WREGIS Account, using one of the two options below:

Option 1 – Automatic eligibility based on list of generators

- The Program Administrator provides a list of all generators that have been approved/unapproved as eligible via an electronic file following a standardized format.
- The Program Administrator imports the list electronically via the Account login, which automatically updates WREGIS with eligibility verification for appropriate generators. (See Sections 3, 4, and 5 below for details regarding file uploading procedures).

Option 2 – Program Administrator directly verifies eligibility within WREGIS

- Within WREGIS, the Program Administrator verifies each Generating Unit claiming eligibility as certified or not certified, and marks changes as appropriate.
- The Generating Units are solely responsible for contacting Program Administrators to obtain certification.

The Program Administrator is responsible for updating WREGIS with information on decertified Generating Units, with the exception of automatic decertification based on changes to essential Generating Unit characteristics.

3. File Description

For option 1 above, Sections 3, 4, and 5 provide valuable information that will be used by the Program Administrators who wish to upload eligibility information into WREGIS.

The data shall be in ASCII text with data fields delimited by commas (Comma-Separated Value (CSV) format). The files have the following general structure:

```
<column1Name>,<column2Name>,...
<column1Value>,<column2Value>,...
```

If the Column Name(s) and Value(s) do not conform with/to the above specification, WREGIS will indicate a fatal error and the file will not be loaded.

Table 1: Generating Data File Content Structural Elements

<columnXName>	a human-readable label for the X'th column of CSV data
<fieldXValue>	a value for the X'th column of CSV data. There can be any number of data rows in a file. Data types are not quoted.

The following examples show a conforming input file.

Program,Unit ID,Fuel Type,Program Y or N,Certification Number,First Vintage,End Vintage,Misc,Good Thru Date MM/YYYY, Attribute7,Attribute8,Attribute0
CA,W14,SO1,Y,CA5555,12/2007,12/2009,123abc,12/2009,N,N,

Table 2: Example – California input file

Program	Unit ID	Fuel Type	Program Y or N	Certification Number	First Vintage MM/YYYY	End Vintage MM/YYYY	Misc (10 Char)	Good Thru Date MM/YYYY	CA 1	CA 2	Close string
CA	W14	SO1	Y	CA55555	12/2007	12/2009	123abc	12/2009	N	N	

Program,Unit ID,Fuel Type,Program Y or N,Certification Number,First Vintage,End Vintage,Misc,Good Thru Date MM/YYYY,Attribute0 CO,W14,SO1,Y,CO5555,12/2007,12/2009,123abc,12/2009,

Table 3: Example – All Program input file (except California)

Program	Unit ID	Fuel Type	Program Y or N	Certification Number	First Vintage MM/YYYY	End Vintage MM/YYYY	Misc (10 Char)	Good Thru Date MM/YYYY	Close string
CO	W14	SO1	Y	CO55555	12/2007	12/2009	123abc	12/2009	

Null Values

If null is valid as a field value for a given field, the data may be optionally omitted in the file. For example, the following line indicates the last field is null.

CA,W14,SO1,Y,CA5555,12/2007,12/2009,,12/2009,N,,

Table 4: Example – California input file

Program	Unit ID	Fuel Type	Program Y or N	Certification Number	First Vintage MM/YYYY	End Vintage MM/YYYY	Misc (10 Char)	Good Thru Date MM/YYYY	CA 1	CA 2	Close string
CA	W14	SO1	Y	CA55555	12/2007	12/2009		12/2009	N		

Program,Unit ID,Fuel Type,Program Y or N,Certification Number,First Vintage,End Vintage,Misc,Good Thru Date MM/YYYY,Attribute0 CO,W14,SO1,Y,,12/2007,12/2009,123abc,,

Table 5: Example – All Program input file (except California)

Program	Unit ID	Fuel Type	Program Y or N	Certification Number	First Vintage MM/YYYY	End Vintage MM/YYYY	Misc (10 Char)	Good Thru Date MM/YYYY	Close string
CO	W14	SO1	Y		12/2007	12/2009	123abc		

4. Field Definitions

The following sections define the data contained in an extract file accepted by WREGIS.

4.1. State/Provincial/Voluntary Program Extract for WREGIS Generating Units

The program extract provides eligibility information for Generating Units qualified or disqualified from a Program tracked in WREGIS. This file will be generated and delivered via a State, Provincial, or Voluntary Program Administrator. The Program Administrator will access the WREGIS System and load the eligibility data through the designated module in the Program Administrator's WREGIS Account. Attributes and their validations are defined for a Program tracked in WREGIS. The fields are as described in the following tables.

The current Programs tracked in WREGIS are:

Table 6: Current Programs Tracked in WREGIS

Program Code	Description
AB	Alberta
AZ	Arizona
BC	British Columbia
CA	California
CO	Colorado
ECOLOGO	Ecologo
GREENE	Green-E Energy
LIHYDRO	Low Impact Hydro
MT	Montana
NV	Nevada
NM	New Mexico
OR	Oregon
SMUD	Sacramento Municipal Utility District
TX	Texas
UT	Utah
WA	Washington

The current fuel types in WREGIS are:

Table 7: Current Fuel Types in WREGIS

Fuel Type Code	Description
ALT	Alternate Use
BIG	Biogas
BIM	Biomass
BBL	Biomass-Black Liquor

Fuel Type Code	Description
CO1	Coal
CON	Conversion of Fuel from Natural Gas Pipeline
DI1	Diesel
FC1	Fuel Cells using Hydrogen derived from Fossil Fuels
GE1	Geothermal Energy
H2O	Hydroelectric Water
HYD	Hydrogen
JET	Jet Fuel
LHN	Large Hydro not meant for certificate creation
MS1	Municipal solid waste
NG1	Natural Gas
NG2	Natural Gas (CEC Renewable)
NU1	Nuclear
OC1	Ocean
OIL	Oil
PKC	Petroleum coke (petcoke)
PSN	Pumped Storage not meant for certificate creation
SO1	Solar
TDF	Tire-derived fuel
WO1	Waste Oil
WND	Wind

4.1.1. California Program Extract

The following table describes the fields that represent the eligibility information allowable in the Program extract file related to the California Programs tracked in WREGIS.

Table 8: California Program Extracts Fields

Field Name	Data Type	Description
Program	Char(8)	Two-letter abbreviation for California – “CA”
UNIT ID	Integer	Unique identifier for the unit assigned by the WREGIS System – the WREGIS Generating Unit ID
Fuel Type	Char(10)	Fuel type code for the unit as reported in WREGIS
Attribute1	Char(10)	In “Y” or “N”, eligibility status for the CA RPS Program, where “Y” is for Yes, it is eligible, and “N” is for No, it is not eligible (appears on certificate)

Field Name	Data Type	Description
Attribute2	Char(10)	Alphanumeric CA RPS Certification Number (appears on certificate)
Attribute3	Char(10)	In MM/YYYY, the First Eligible Vintage – identifying the first month of eligible certificates, regardless of what certificate says
Attribute4	Char(10)	In MM/YYYY, the End Eligible Vintage – identifying the last month of eligible certificates, regardless of what certificate says
Attribute5	Char(10)	Alphanumeric Miscellaneous field (appears on certificate)
Attribute6	Char(10)	In MM/YYYY, the Good Through Date – identifying when the Generating Unit is no longer eligible in the CA RPS program
Attribute7	Char(10)	In “Y” or “N”, indicating eligibility in CA Option 1, where “Y” is for Yes, it is eligible, and “N” is for No, it is not eligible
Attribute8	Char(10)	In “Y” or “N”, indicating eligibility in CA Option 2, where “Y” is for Yes, it is eligible, and “N” is for No, it is not eligible (appears on certificate)
Attribute0	Char(0)	closes string

4.1.2. All Program Extracts (except California)

The following table describes the fields that represent the eligibility information allowable in the Program extract file related to all Programs tracked in WREGIS (except California).

Table 9: All Program Extracts Fields (except California)

Field Name	Data Type	Description
Program	Char(8)	Program code for the State, Provincial or Voluntary Program tracked in WREGIS
UNIT ID	Integer	Unique identifier for the unit assigned by the WREGIS System – the WREGIS Generating Unit ID
Fuel Type	Char(10)	Fuel type code for the unit as reported in WREGIS
Attribute1	Char(10)	In “Y” or “N”, eligibility status for the CA RPS Program, where “Y” is for Yes, it is eligible, and “N” is for No, it is not eligible (appears on certificate)
Attribute2	Char(10)	Alphanumeric Certification Number (appears on certificate)

Field Name	Data Type	Description
Attribute3	Char(10)	In MM/YYYY, the First Eligible Vintage – identifying the first month of eligible certificates, regardless of what certificate says
Attribute4	Char(10)	In MM/YYYY, the End Eligible Vintage – identifying the last month of eligible certificates, regardless of what certificate says
Attribute5	Char(10)	Alphanumeric Miscellaneous field (appears on certificate)
Attribute6	Char(10)	In MM/YYYY, the Good Through Date – identifying when the Generating Unit is no longer eligible in the program
Attribute0	Char(0)	closes string

5. File Loading

All files will be loaded via the WREGIS System using a valid Active WREGIS Login and password that is associated with an Active open Program Administrator WREGIS Account.

5.1. Loading Program Extract Files for WREGIS Generating Units

Only Program Administrator Account Holders have the ability to load the Program Extract File.

1. Log into the WREGIS Account
2. Locate the Program Eligibilities module and browse the computer or network for the desired State/Provincial or Voluntary Program Extract file.
3. Select and open the desired file, and select upload.

Wait for WREGIS to validate the file. If the validation is successful, WREGIS clears the Program Administrator's previous eligibility verification information and writes the updated information into the database. If the validation is not successful, WREGIS does not load the data, and the Program Administrator will see an error message.

The table below lists the validation procedure for the uploaded attribute data file:

Table 10: Validation Procedure for the Uploaded Attribute Data File

Field	Validation
State/Province	State/Province with a program (including Voluntary) tracked in WREGIS. If the State/Province/Voluntary abbreviation is wrong or not listed in WREGIS, the system rejects the file.

Field	Validation
Unit ID	WREGIS Unit ID of the registered Generating Unit. If this ID number does not appear in the Update Program Eligibilities module (meaning that the unit has not assigned the Program Administrator to their unit), the system will reject the file.
Attributes	List of State/Provincial/Voluntary-defined attributes. If the file contains an attribute not defined in WREGIS, the system will reject it.