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> JENNIFER L. MERSING D. 206.386.7664 jennifer.mersing@stoel.com

June 25, 2019

Paige Morris Deputy Clerk North Carolina Utilities Commission 430 N. Salisbury Street Raleigh, NC 27602

Re: Docket No. SP-5189, Sub 0 Eden Solar, LLC

Dear Deputy Clerk:

Enclosed please find the Form 556 Qualifying Facility Recertification filed by Eden Solar, LLC with the Federal Energy Regulatory Commission, which is being served on the North Carolina Utilities Commission pursuant to 18 C.F.R. § 292.207(c)(1).

Very truly yours, /s/ Jennifer L. Mersing

cc: Duke Energy

FEDERAL ENERGY REGULATORY COMMISSION WASHINGTON, DC

Form 556 Certification of Qualifying Facility (QF) Status for a Small Power Production or Cogeneration Facility

General

Questions about completing this form should be sent to <u>Form556@ferc.gov</u>. Information about the Commission's QF program, answers to frequently asked questions about QF requirements or completing this form, and contact information for QF program staff are available at the Commission's QF website, <u>www.ferc.gov/QF</u>. The Commission's QF website also provides links to the Commission's QF regulations (18 C.F.R. § 131.80 and Part 292), as well as other statutes and orders pertaining to the Commission's QF program.

Who Must File

Any applicant seeking QF status or recertification of QF status for a generating facility with a net power production capacity (as determined in lines 7a through 7g below) greater than 1000 kW must file a self-certification or an application for Commission certification of QF status, which includes a properly completed Form 556. Any applicant seeking QF status for a generating facility with a net power production capacity 1000 kW or less is exempt from the certification requirement, and is therefore not required to complete or file a Form 556. See 18 C.F.R. § 292.203.

How to Complete the Form 556

This form is intended to be completed by responding to the items in the order they are presented, according to the instructions given. If you need to back-track, you may need to clear certain responses before you will be allowed to change other responses made previously in the form. If you experience problems, click on the nearest help button ()) for assistance, or contact Commission staff at Form556@ferc.gov.

Certain lines in this form will be automatically calculated based on responses to previous lines, with the relevant formulas shown. You must respond to all of the previous lines within a section before the results of an automatically calculated field will be displayed. If you disagree with the results of any automatic calculation on this form, contact Commission staff at Form556@ferc.gov to discuss the discrepancy before filing.

You must complete all lines in this form unless instructed otherwise. Do not alter this form or save this form in a different format. Incomplete or altered forms, or forms saved in formats other than PDF, will be rejected.

How to File a Completed Form 556

Applicants are required to file their Form 556 electronically through the Commission's eFiling website (see instructions on page 2). By filing electronically, you will reduce your filing burden, save paper resources, save postage or courier charges, help keep Commission expenses to a minimum, and receive a much faster confirmation (via an email containing the docket number assigned to your facility) that the Commission has received your filing.

If you are simultaneously filing both a waiver request and a Form 556 as part of an application for Commission certification, see the "Waiver Requests" section on page 3 for more information on how to file.

Paperwork Reduction Act Notice

This form is approved by the Office of Management and Budget. Compliance with the information requirements established by the FERC Form No. 556 is required to obtain or maintain status as a QF. See 18 C.F.R. § 131.80 and Part 292. An agency may not conduct or sponsor, and a person is not required to respond to, a collection of information unless it displays a currently valid OMB control number. The estimated burden for completing the FERC Form No. 556, including gathering and reporting information, is as follows: 3 hours for self-certification of a small power production facility, 8 hours for self-certifications of a cogeneration facility, 6 hours for an application for Commission certification of a small power production facility, and 50 hours for an application for Commission certifications for reducing this burden, to the following: Information Clearance Officer, Office of the Executive Director (ED-32), Federal Energy Regulatory Commission, 888 First Street N.E., Washington, DC 20426 (DataClearance@ferc.gov); and Desk Officer for FERC, Office of Information and Regulatory Affairs, Office of Management and Budget, Washington, DC 20503 (oira_submission@omb.eop.gov). Include the Control No. 1902-0075 in any correspondence.

Electronic Filing (eFiling)

To electronically file your Form 556, visit the Commission's QF website at <u>www.ferc.gov/QF</u> and click the eFiling link.

If you are eFiling your first document, you will need to register with your name, email address, mailing address, and phone number. If you are registering on behalf of an employer, then you will also need to provide the employer name, alternate contact name, alternate contact phone number and and alternate contact email.

Once you are registered, log in to eFiling with your registered email address and the password that you created at registration. Follow the instructions. When prompted, select one of the following QF-related filing types, as appropriate, from the Electric or General filing category.

| Filing category | Filing Type as listed in eFiling | Description |
|---|---|--|
| | (Fee) Application for Commission Cert. as Cogeneration QF | Use to submit an application for Commission certification or Commission recertification of a cogeneration facility as a QF. |
| | (Fee) Application for Commission Cert. as Small Power QF | Use to submit an application for Commission certification or Commission recertification of a small power production facility as a QF. |
| | Self-Certification Notice (QF, EG, FC) | Use to submit a notice of self- certification of your facility (cogeneration or small power production) as a QF. |
| Electric | Self-Recertification of Qualifying Facility (QF) | Use to submit a notice of self- recertification of your facility (cogeneration or small power production) as a QF. |
| Form 556 that was errors or omission Commission staff additional inform Supplemental Information or Request . | Use to correct or supplement a Form 556 that was submitted with errors or omissions, or for which Commission staff has requested additional information. Do <i>not</i> use this filing type to report new changes to a facility or its ownership; rather, use a self- recertification or Commission recertification to report such changes. | |
| General | (Fee) Petition for Declaratory Order (not under FPA Part 1) | Use to submit a petition for declaratory order granting a waiver of Commission QF regulations pursuant to 18 C.F.R. §§ 292.204(a) (3) and/or 292.205(c). A Form 556 is not required for a petition for declaratory order unless Commission recertification is being requested as part of the petition. |

You will be prompted to submit your filing fee, if applicable, during the electronic submission process. Filing fees can be paid via electronic bank account debit or credit card.

During the eFiling process, you will be prompted to select your file(s) for upload from your computer.

Filing Fee

No filing fee is required if you are submitting a self-certification or self-recertification of your facility as a QF pursuant to 18 C.F.R. § 292.207(a).

A filing fee is required if you are filing either of the following:

(1) an application for Commission certification or recertification of your facility as a QF pursuant to 18 C.F.R. § 292.207(b), or (2) a petition for declaratory order granting waiver pursuant to 18 C.F.R. §§ 292.204(a)(3) and/or 292.205(c).

The current fees for applications for Commission certifications and petitions for declaratory order can be found by visiting the Commission's QF website at <u>www.ferc.gov/QF</u> and clicking the Fee Schedule link.

You will be prompted to submit your filing fee, if applicable, during the electronic filing process described on page 2.

Required Notice to Utilities and State Regulatory Authorities

Pursuant to 18 C.F.R. § 292.207(a)(ii), you must provide a copy of your self-certification or request for Commission certification to the utilities with which the facility will interconnect and/or transact, as well as to the State regulatory authorities of the states in which your facility and those utilities reside. Links to information about the regulatory authorities in various states can be found by visiting the Commission's QF website at www.ferc.gov/QF and clicking the Notice Requirements link.

What to Expect From the Commission After You File

An applicant filing a Form 556 electronically will receive an email message acknowledging receipt of the filing and showing the docket number assigned to the filing. Such email is typically sent within one business day, but may be delayed pending confirmation by the Secretary of the Commission of the contents of the filing.

An applicant submitting a self-certification of QF status should expect to receive no documents from the Commission, other than the electronic acknowledgement of receipt described above. Consistent with its name, a self-certification is a certification *by the applicant itself* that the facility meets the relevant requirements for QF status, and does not involve a determination by the Commission as to the status of the facility. An acknowledgement of receipt of a self-certification, in particular, does not represent a determination by the Commission with regard to the QF status of the facility. An applicant self-certifying may, however, receive a rejection, revocation or deficiency letter if its application is found, during periodic compliance reviews, not to comply with the relevant requirements.

An applicant submitting a request for Commission certification will receive an order either granting or denying certification of QF status, or a letter requesting additional information or rejecting the application. Pursuant to 18 C.F.R. § 292.207(b)(3), the Commission must act on an application for Commission certification within 90 days of the later of the filing date of the application or the filing date of a supplement, amendment or other change to the application.

Waiver Requests

18 C.F.R. § 292.204(a)(3) allows an applicant to request a waiver to modify the method of calculation pursuant to 18 C.F.R. § 292.204(a)(2) to determine if two facilities are considered to be located at the same site, for good cause. 18 C.F.R. § 292.205(c) allows an applicant to request waiver of the requirements of 18 C.F.R. §§ 292.205(a) and (b) for operating and efficiency upon a showing that the facility will produce significant energy savings. A request for waiver of these requirements must be submitted as a petition for declaratory order, with the appropriate filing fee for a petition for declaratory order. Applicants requesting Commission recertification as part of a request for waiver of one of these requirements should electronically submit their completed Form 556 along with their petition for declaratory order, rather than filing their Form 556 as a separate request for Commission recertification. Only the filing fee for the petition for declaratory order must be paid to cover both the waiver request and the request for recertification *if such requests are made simultaneously*.

18 C.F.R. § 292.203(d)(2) allows an applicant to request a waiver of the Form 556 filing requirements, for good cause. Applicants filing a petition for declaratory order requesting a waiver under 18 C.F.R. § 292.203(d)(2) do not need to complete or submit a Form 556 with their petition.

Geographic Coordinates

If a street address does not exist for your facility, then line 3c of the Form 556 requires you to report your facility's geographic coordinates (latitude and longitude). Geographic coordinates may be obtained from several different sources. You can find links to online services that show latitude and longitude coordinates on online maps by visiting the Commission's QF webpage at <u>www.ferc.gov/QF</u> and clicking the Geographic Coordinates link. You may also be able to obtain your geographic coordinates from a GPS device, Google Earth (available free at <u>http://earth.google.com</u>), a property survey, various engineering or construction drawings, a property deed, or a municipal or county map showing property lines.

Filing Privileged Data or Critical Energy Infrastructure Information in a Form 556

The Commission's regulations provide procedures for applicants to either (1) request that any information submitted with a Form 556 be given privileged treatment because the information is exempt from the mandatory public disclosure requirements of the Freedom of Information Act, 5 U.S.C. § 552, and should be withheld from public disclosure; or (2) identify any documents containing critical energy infrastructure information (CEII) as defined in 18 C.F.R. § 388.113 that should not be made public.

If you are seeking privileged treatment or CEII status for any data in your Form 556, then you must follow the procedures in 18 C.F.R. § 388.112. See <u>www.ferc.gov/help/filing-guide/file-ceii.asp</u> for more information.

Among other things (see 18 C.F.R. § 388.112 for other requirements), applicants seeking privileged treatment or CEII status for data submitted in a Form 556 must prepare and file both (1) a complete version of the Form 556 (containing the privileged and/or CEII data), and (2) a public version of the Form 556 (with the privileged and/or CEII data redacted). Applicants preparing and filing these different versions of their Form 556 must indicate below the security designation of this version of their document. If you are *not* seeking privileged treatment or CEII status for any of your Form 556 data, then you should not respond to any of the items on this page.

Non-Public: Applicant is seeking privileged treatment and/or CEII status for data contained in the Form 556 lines indicated below. This non-public version of the applicant's Form 556 contains all data, including the data that is redacted in the (separate) public version of the applicant's Form 556.

Public (redacted): Applicant is seeking privileged treatment and/or CEII status for data contained in the Form 556 lines indicated below. This public version of the applicants's Form 556 contains all data <u>except</u> for data from the lines indicated below, which has been redacted.

Privileged: Indicate below which lines of your form contain data for which you are seeking privileged treatment

Critical Energy Infrastructure Information (CEII): Indicate below which lines of your form contain data for which you are seeking CEII status

The eFiling process described on page 2 will allow you to identify which versions of the electronic documents you submit are public, privileged and/or CEII. The filenames for such documents should begin with "Public", "Priv", or "CEII", as applicable, to clearly indicate the security designation of the file. Both versions of the Form 556 should be unaltered PDF copies of the Form 556, as available for download from www.ferc.gov/QF. To redact data from the public copy of the submittal, simply omit the relevant data from the Form. For numerical fields, leave the redacted fields blank. For text fields, complete as much of the field as possible, and replace the redacted portions of the field with the word "REDACTED" in brackets. Be sure to identify above <u>all</u> fields which contain data for which you are seeking non-public status.

The Commission is not responsible for detecting or correcting filer errors, including those errors related to security designation. If your documents contain sensitive information, make sure they are filed using the proper security designation.

FEDERAL ENERGY REGULATORY COMMISSION WASHINGTON, DC

Form 556 Certification of Qualifying Facility (QF) Status for a Small Power Production or Cogeneration Facility

| 1b Applicant street addr 2180 South 1300 | | | | | |
|---|--|--------------------|---|--|--|
| 1c City | | 1d State/provi | nce | | |
| Salt Lake City | | Utah | | | |
| 1e Postal code 84106 | 1f Country (if not United States) | | 1g Telephone number 801–679–3500 | | |
| 1h Has the instant facility | vever previously been certified as a Q | -? Yes 🔀 🛚 | lo. 🗌 | | |
| 1i If yes, provide the doc | ket number of the last known QF filing | pertaining to th | nis facility: QF13 - 581 - 005 | | |
| 1j Under which certificat | ion process is the applicant making th | is filing? | | | |
| Notice of self-certifi (see note below) | | — | mmission certification (requires filing * section on page 3) | | |
| QF.status A notice o notice of self-certifica | Note: a notice of self-certification is a notice by the applicant itself that its facility complies with the requirements for QF status. A notice of self-certification does not establish a proceeding, and the Commission does not review a notice of self-certification to verify compliance. See the "What to Expect From the Commission After You File" section on page 3 for more information. | | | | |
| 1k What type(s) of QF status is the applicant seeking for its facility? (check all that apply) | | | | | |
| Qualifying small power production facility status Qualifying cogeneration facility status | | | | | |
| 11 What is the purpose and expected effective date(s) of this filing? | | | | | |
| Original certification | Original certification; facility expected to be installed by and to begin operation on | | | | |
| 🔀 Change(s) to a prev | iously certified facility to be effective o | on <u>4/18/19</u> | | | |
| (identify type(s) of (| change(s) below, and describe change | (s) in the Miscell | aneous section starting on page 19) | | |
| 🔲 Name change ar | nd/or other administrative change(s) | | | | |
| 🖾 Change in owne | rship | | | | |
| Change(s) affect | Change(s) affecting plant equipment, fuel use, power production capacity and/or cogeneration thermal output | | | | |
| Supplement or correction to a previous filing submitted on | | | | | |
| (describe the supplement or correction in the Miscellaneous section starting on page 19) | | | | | |
| Im If any of the following three statements is true, check the box(es) that describe your situation and complete the form to the extent possible, explaining any special circumstances in the Miscellaneous section starting on page 19. | | | | | |
| 🖵 previously granted | r complies with the Commission's QF r d by the Commission in an order date ellaneous section starting on page 19) | d | virtue of a waiver of certain regulations (specify any other relevant waiver | | |
| | would comply with the Commission' this application is granted | s QF requiremen | ts if a petition for waiver submitted | | |
| | complies with the Commission's regulation of the complex with the Commission's regulation of the complex not of | | | | |

| FE | RC Form 556 | Page 6 - All Facilities | | | | |
|---------------------|--|---|--|--|--|--|
| | 2a Name of contact person Sean McBride | 2b Telephone number 801-679-3506 | | | | |
| Contact Information | 2c Which of the following describes the contact person's relation | pplicant authorized to represent the applicant orized to represent the applicant orized to represent the applicant on this matter represent the applicant on this matter I, check here and skip to line 2e) | | | | |
| | 2h Postal code . 2i Country (if not United) | States) | | | | |
| | 3a Facility name Eden Solar 3b Street address (if a street address does not exist for the facil 2252 Derby Road | ity, check here and skip to line 3c) | | | | |
| | Geographic coordinates: If you indicated that no street add then you must specify the latitude and longitude coordinat the following formula to convert to decimal degrees from degrees + (minutes/60) + (seconds/3600). See the "Geograprovided a street address for your facility in line 3b, then sp Longitude West (-) | es of the facility in degrees (to three decimal places). 'Use egrees, minutes and seconds: decimal degrees = phic Coordinates" section on page 4 for help. If you | | | | |
| raciiity iu | 3d City (if unincorporated, check here and enter nearest city) Jackson Springs | | | | | |
| יייר | 3f County (or check here for independent city) 3g Richmond | Country (if not United States) | | | | |
| | Identify the electric utilities that are contemplated to transact with the facility. | | | | | |
| | 4a Identify utility interconnecting with the facility Duke Energy | | | | | |
| 2 | 4b Identify utilities providing wheeling service or check here if | none 🔀 | | | | |
| וטמרני | 4c Identify utilities purchasing the useful electric power output Duke Energy | or check here if none | | | | |
| 19 | 4c Identify utilities purchasing the useful electric power output or check here if none Duke Energy 4d Identify utilities providing supplementary power, backup power, maintenance power, and/or interruptible power service or check here if none | | | | | |

FERC Form 556

| two direct owners with the largest equity interest in the facility. | Elect | ric uti | ility or | lf Yes, |
|---|--|---|--|---|
| | I | noldir | ig | % equit |
| Full legal names of direct owners | | holding company % equinter Yes No 1 Yes No 1 <th>interest</th> | interest | |
| 1) Eden Solar, LLC | Yes | | No 🛛 | 100 |
| 2) | Yes | | No 🔲 | |
| 3) | Yes | <u> </u> | Vo 🗌 | <u> </u> |
| 4) | Yes | <u> </u> | No 🗌 | |
| 5) | Yes | | Vo 🗌 | |
| 6) | Yes | <u> </u> | Vo 🗌 | · |
| 7) | | ا [| No . | |
| 8) | Yes | | No 🗌 | |
| 9) | Yes | | No 🗌 | |
| 10) | Yes | | No_ 🗌 | |
| of the facility that both (1) hold at least 10 percent equity interest in t defined in section 3(22) of the Federal Power Act (16 U.S.C. 796(22)), of 1262(8) of the Public Utility Holding Company Act of 2005 (42 U.S.C. 1 equity interest in the facility held by such owners. (Note that, becaus | ate: Identify all upstrea he facility, and (2) are e or hölding companies, a 6451(8)). Also provide e upstream owners ma | m (i.e lectric s.defi the p | , indire utilitie ined in ercenta | ect) owner es, as section age of |
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| FERC | Form | 556 |
|------|------|-----|
|------|------|-----|

| | 6a Describe the primary e | nergy input: (check one m | ain category and, if ap | plicable, one subca | tegory) | | |
|--------------|---|--|---|--|---|--|--|
| | Biomass (specify) | | enewable resources (s | specify) 🗌 Geo | othermal | | |
| | 🗌 Landfill gas | | 🔲 Hydro power - riv | /er 🗌 Fos | sil fuel (specify) | | |
| | 📋 Manure diges | iter gas | 🔲 Hydro power - tio | lal 🛛 | 🗌 Coal (not waste) | | |
| | 🗌 Municipal sol | id waste | 🔲 Hydro power - wa | a ve E |] Fuel oil/diesel | | |
| | Sewage diges | ster gas | 🛛 Solar - photovolt | aic [|] Natural gas (not waste) | | |
| | 🗌 Wood | | 🔲 Solar - thermal | C | Other fossil fuel (describe on page 19) | | |
| | Other biomas | ss (describe on page <u>19)</u> | ☐ Wind | | | | |
| | Waste (specify type | | Other renewable (describe on pag | e 19) | ner (describe on page 19) | | |
| | 6b If you specified "waste" | ' as the primary energy inp | out in line 6a, indicate i | the type of waste fu | el used: (check one) | | |
| | 🗌 🗌 Waste fuel listed i | n 18 C.F.R. § 292.202(b) (sp | pecify one of the follow | ving) | | | |
| | 🗌 Anthracite d | culm produced prior to Jul | y 23, 1985 | | | | |
| | | refuse that has an average t of 45 percent or more | heat content of 6,000 | Btu or less per pour | nd and has an average | | |
| | | coal refuse that has an ave content of 25 percent or i | | 9,500 Btu per pound | d or less and has an | | |
| nput | determined (BLM) or that | om subbituminous coal pr I to be waste by the United at is located on non-Federa nt shows that the latter coa | l States Department o al or non-Indian lands | f the Interior's Burea outside of BLM's jur | au of Land Management isdiction, provided that | | |
| Energy Input | 🔲 🔲 BLM or that | produced on Federal land is located on non- Federal nows that the latter is an ex | l or non-Indian lands o | utside of BLM's juri: | sdiction, provided that | | |
| ш | Lignite proc as a result o | luced in association with t f such a mining operation | he production of mon | tan wax and lignite | that becomes exposed | | |
| | 🔲 Gaseous fue | els (except natural gas and | synthetic gas from co | al) (describe on pag | je 19) - | | |
| | C.F.R. § 2.40 | ral gas from gas or oil wells 10 for waste natural gas; in with 18 C.F.R. § 2.400) | | | | | |
| | 🔲 Materials th | at a government agency h | as certified for disposa | al by combustion (d | lescribe on page 19) | | |
| | 🔲 Heat from e | xothermic reactions (desc | ribe on page 19) | 🔲 Residual he | eat (describe on page 19) | | |
| | 🔲 Used rubbe | r tires 🛛 🗌 Plastic ma | aterials 🗌 Re | efinery off-gas | 🗋 Petroleum coke | | |
| | Other waste energy input that has little or no commercial value and exists in the absence of the qualifying facility industry (describe in the Miscellaneous section starting on page 19; include a discussion of the fuel's lack of commercial value and existence in the absence of the qualifying facility industry) | | | | | | |
| | | | e of the total average | annual energy inpu | t to the facility (18 C.F.R. § | | |
| | F | | nual average energy out for specified fuel | Percentag | | | |
| | r Natural gas | <u>dei</u> | | Btu/h | ergy input | | |
| | Oil-based fu | els | | Btu/h | 0% | | |
| | Coal | | | Btu/h | 0 % | | |
| | | | v | 0.0/11 | 0 /0 | | |

Technical Facility Information

| 7b Parasitic station power used at the facility to run equipment which is necessary and integral to the power production process (boiler feed pumps, fans/blowers, office or maintenance buildings directly related to the operation of the power generating facility, etc.). If this facility includes non-power production processes (for instance, power consumed by a cogeneration facility's thermal host), do not include any power consumed by the non-power production activities in your reported parasitic station power |
|---|
| under the most favorable anticipated design conditions62,000 kW 7b Parasitic station power used at the facility to run equipment which is necessary and integral to the power production process (boiler feed pumps, fans/blowers, office or maintenance buildings directly related to the operation of the power generating facility, etc.). If this facility includes non- power production processes (for instance, power consumed by a cogeneration facility's thermal host), do not include any power consumed by the non-power production activities in your reported parasitic station power |
| the power production process (boiler feed pumps, fans/blowers, office or maintenance buildings directly related to the operation of the power generating facility, etc.). If this facility includes non- power production processes (for instance, power consumed by a cogeneration facility's thermal host) , do not include any power consumed by the non-power production activities in your reported parasitic station power |
| 7c Electrical losses in interconnection transformers 0 kW 7d Electrical losses in AC/DC conversion equipment, if any 14,300 kW |
| 0 kW 7d Electrical losses in AC/DC conversion equipment, if any 14,300 kW |
| 14,300 kW |
| |
| 7e Other interconnection losses in power lines or facilities (other than transformers and AC/DC conversion equipment) between the terminals of the generator(s) and the point of interconnection with the utility 0 kW |
| 7f Total deductions from gross power production capacity = 7b + 7c + 7d + 7e |
| |
| 47,700.0 kW |
| which components are normally operating or normally in standby mode. Provide a description of how the components operate as a system. Applicants for cogeneration facilities do not need to describe operations of systems that are clearly depicted on and easily understandable from a cogeneration facility's attached mass and heat balance diagram; however, such applicants should provide any necessary description needed to understandable the sequential operation of the facility depicted in their mass and heat balance diagram. If additional space is needed, continue in the Miscellaneous section starting on page 19. |
| The Eden Solar project consists of 203,452 305 watt Trina Solar modules, mounted on a driven post-supported RBI racking system, creating a designed DC output of approximately 62.01 MW, wired through (78) 680kW Schneider inverters, producing a designed AC output of 47.7MW (limited to 90% of nameplate capacity to meet Duke's requirement for 0.95 lagging power factor at the POI). |
| The qualifying facility includes all generator interconnection facilities necessary to deliver output from the facility to the interstate grid. |
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Information Required for Small Power Production Facility

If you indicated in line 1k that you are seeking qualifying small power production facility status for your facility, then you must respond to the items on this page. Otherwise, skip page 10.

| | Pursuant to 18 C.F.R. § 292.204(a), the power production capacity of any small power production facility, toge with the power production capacity of any other small power production facilities that use the same energy resource, are owned by the same person(s) or its affiliates, and are located at the same site, may not exceed 8 megawatts. To demonstrate compliance with this size limitation, or to demonstrate that your facility is exem from this size limitation under the Solar, Wind, Waste, and Geothermal Power Production Incentives Act of 19 (Pub. L. 101-575, 104 Stat. 2834 (1990) <i>as amended by</i> Pub. L. 102-46, 105 Stat. 249 (1991)), respond to lines 8a through 8e below (as applicable). | 80 ipt: 990 |
|---|---|----------------------|
| | 8a Identify any facilities with electrical generating equipment located within 1 mile of the electrical generating equipment of the instant facility, and for which any of the entities identified in lines 5a or 5b, or their affiliates at least a 5 percent equity interest. | |
| e | Check here if no such facilities exist. 🔀 | E |
| tification of Complian with Size Limitations | Facility locationRoot docket #Maximum net(city or county, state)(if any)Common owner(s)production ca | |
| om | 1) QF | kW |
| шi С | 2) QF | kŴ |
| e ol | 3) QF - | kw |
| Siz | Check here and continue in the Miscellaneous section starting on page 19 if additional space is needed | - |
| Certification of Compliance with Size Limitations | 8b The Solar, Wind, Waste, and Geothermal Power Production Incentives Act of 1990 (Incentives Act) provide exemption from the size limitations in 18 C.F.R. § 292.204(a) for certain facilities that were certified prior to 19 Are you seeking exemption from the size limitations in 18 C.F.R. § 292.204(a) by virtue of the Incentives Act? Yes (continue at line 8c below) No (skip lines 8c through 8e) 8c Was the original notice of self-certification or application for Commission certification of the facility filed or application for Commission certification of the facility filed or application for Commission certification of the facility filed or application for Commission certification of the facility filed or application for Commission certification of the facility filed or application for Commission certification of the facility filed or application for Commission certification of the facility filed or application for Commission certification of the facility filed or application for Commission certification or application for Commission certification or application for Commission certification of the facility filed or application for Commission certification for | 995. V |
| - | before December 31, 1994? Yes 🗋 No 🛄 | - |
| | 8d Did construction of the facility commence on or before December 31, 1999? Yes No | |
| | 8e If you answered No in line 8d, indicate whether reasonable diligence was exercised toward the completion the facility, taking into account all factors relevant to construction? Yes No If you answered Yes, pray brief narrative explanation in the Miscellaneous section starting on page 19 of the construction timeline (in particular, describe why construction started so long after the facility was certified) and the diligence exercise toward completion of the facility. | rovide |
| Certification of Compliance with Fuel Use Requirements | Pursuant to 18 C.F.R. § 292.204(b), qualifying small power production facilities may use fossil fuels, in minimal amounts, for only the following purposes: ignition; start-up; testing; flame stabilization; control use; alleviation prevention of unanticipated equipment outages; and alleviation or prevention of emergencies, directly affect the public health, safety, or welfare, which would result from electric power outages. The amount of fossil fuel used for these purposes may not exceed 25 percent of the total energy input of the facility during the 12-mor period beginning with the date the facility first produces electric energy or any calendar year thereafter. | on or ting els |
| of C Re | 9a Certification of compliance with 18 C.F.R. § 292.204(b) with respect to uses of fossil fuel: | |
| ion d Use | Applicant certifies that the facility will use fossil fuels <i>exclusively</i> for the purposes listed above. | |
| cat uel | 9b Certification of compliance with 18 C.F.R. § 292.204(b) with respect to amount of fossil fuel used annually: | |
| Certifi with F | Applicant certifies that the amount of fossil fuel used at the facility will not, in aggregate, exceed 25 percent of the total energy input of the facility during the 12-month period beginning with the date the facility first produces electric energy or any calendar year thereafter. | he |

Information Required for Cogeneration Facility

If you indicated in line 1k that you are seeking qualifying cogeneration facility status for your facility, then you must respond to the items on pages 11 through 13. Otherwise, skip pages 11 through 13.

| | | | | _ · |
|----------------------|-------------|---|--|-----|
| | · · · | energy (such as heat or use of energy. Pursuant cycle cogeneration facili thermal application or p | 92.202(c), a cogeneration facility produces electric energy and forms of useful thermal steam) used for industrial, commercial, heating, or cooling purposes, through the sequential to 18 C.F.R. § 292.202(s), "sequential use" of energy means the following: (1) for a topping- ity, the use of reject heat from a power production process in sufficient amounts in a rocess to conform to the requirements of the operating standard contained in 18 C.F.R. § pottoming-cycle cogeneration facility, the use of at least some reject heat from a thermal power production. | Ø |
| | | 10a What type(s) of cog | eneration technology does the facility represent? (check all that apply) | Ð |
| | | . D Topping-cycle | e cogeneration 🛛 🗌 Bottoming-cycle cogeneration | |
| | • | other requirement balance diagram d meet certain requir | te the sequential operation of the cogeneration process, and to support compliance with s such as the operating and efficiency standards, include with your filing a mass and heat epicting average annual operating conditions. This diagram must include certain items and rements, as described below. You must check next to the description of each requirement at you have complied with these requirements. | · |
| | | Check to certify | | |
| | | compliance with | | |
| | | indicated requirement | Requirement | |
| ration | | | Diagram must show orientation within system piping and/or ducts of all prime movers, heat recovery steam generators, boilers, electric generators, and condensers (as applicable), as well as any other primary equipment relevant to the cogeneration process. | |
| anan Man | natio | | Any average annual values required to be reported in lines 10b, 12a, 13a, 13b, 13d, 13f, 14a, 15b, 15d and/or 15f must be computed over the anticipated hours of operation. | |
| General Coneneration | Information | | Diagram must specify all fuel inputs by fuel type and average annual rate in Btu/h. Fuel for supplementary firing should be specified separately and clearly labeled. All specifications of fuel inputs should use lower heating values. | |
| e l | | | Diagram must specify average gross electric output in kW or MW for each generator. | |
| | | | Diagram must specify average mechanical output (that is, any mechanical energy taken off of the shaft of the prime movers for purposes not directly related to electric power generation) in horsepower, if any. Typically, a cogeneration facility has no mechanical output. | |
| | | | At each point for which working fluid flow conditions are required to be specified (see below), such flow condition data must include mass flow rate (in lb/h or kg/s), temperature (in °F, R, °C or K), absolute pressure (in psia or kPa) and enthalpy (in Btu/lb or kJ/kg). Exception: For systems where the working fluid is <i>liquid only</i> (no vapor at any point in the cycle) and where the type of liquid and specific heat of that liquid are clearly indicated on the diagram or in the Miscellaneous section starting on page 19, only mass flow rate and temperature (not pressure and enthalpy) need be specified. For reference, specific heat at standard conditions for pure liquid water is approximately 1.002 Btu/ (lb*R) or 4.195 kJ/(kg*K). | |
| | | | Diagram must specify working fluid flow conditions at input to and output from each steam turbine or other expansion turbine or back-pressure turbine. | |
| | | | Diagram must specify working fluid flow conditions at delivery to and return from each thermal application. | |
| | | | Diagram must specify working fluid flow conditions at make-up water inputs. | |

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| | EPAct 2005 cogeneration facilities: The Energy Policy Act of 2005 (EPAct 2005) established a new section 210(n) of the Public Utility Regulatory Policies Act of 1978 (PURPA), 16 USC 824a-3(n), with additional requirements for any qualifying cogeneration facility that (1) is seeking to sell electric energy pursuant to section 210 of PURPA and (2) was either not a cogeneration facility on August 8, 2005, or had not filed a self-certification or application for Commission certification of QF status on or before February 1, 2006. These requirements were implemented by the Commission in 18 C.F.R. § 292.205(d). Complete the lines below, carefully following the instructions, to demonstrate whether these additional requirements apply to your cogeneration facility and, if so, whether your facility complies with such requirements. | - |
|--|---|---|
| | 11a Was your facility operating as a qualifying cogeneration facility on or before August 8, 2005? Yes No | Ð |
| • | 11b Was the initial filing seeking certification of your facility (whether a notice of self-certification or an application for Commission certification) filed on or before February 1, 2006? Yes No | Ø |
| es s' | If the answer to either line 11a or 11b is Yes, then continue at line 11c below. Otherwise, if the answers to both lines 11a and 11b are No, skip to line 11e below. | - |
| ntal Us acilitie | 11c With respect to the design and operation of the facility, have any changes been implemented on or after February 2, 2006 that affect general plant operation, affect use of thermal output, and/or increase net power production capacity from the plant's capacity on February 1, 2006? | Ð |
| ле П | Yes (continue at line 11d below) | |
| ct 2005 Requirements for Fundamental Use Energy Output from Cogeneration Facilities | No. Your facility is not subject to the requirements of 18 C.F.R. § 292.205(d) at this time. However, it may be subject to to these requirements in the future if changes are made to the facility. At such time, the applicant would need to recertify the facility to determine eligibility. Skip lines 11d through 11j. | |
| s for ogèr | 11d Does the applicant contend that the changes identified in line 11c are not so significant as to make the facility a "new" cogeneration facility that would be subject to the 18 C.F.R. § 292.205(d) cogeneration requirements? | Ð |
| ement: from C | Yes. Provide in the Miscellaneous section starting on page 19 a description of any relevant changes made to the facility (including the purpose of the changes) and a discussion of why the facility should not be considered a "new" cogeneration facility in light of these changes. Skip lines 11e through 11j. | |
| Requir | No. Applicant stipulates to the fact that it is a "new" cogeneration facility (for purposes of determining the applicability of the requirements of 18 C.F.R. § 292.205(d)) by virtue of modifications to the facility that were initiated on or after February 2, 2006. Continue below at line 11e. | - |
| 05 V C | 11e Will electric energy from the facility be sold pursuant to section 210 of PURPA? | Ø |
| :t 20 nerg | Yes. The facility is an EPAct 2005 cogeneration facility. You must demonstrate compliance with 18 C.F.R. § 292.205(d)(2) by continuing at line 11f below. | |
| EPAc of E | No. Applicant certifies that energy will <i>not</i> be sold pursuant to section 210 of PURPA. Applicant also certifies its understanding that it must recertify its facility in order to determine compliance with the requirements of 18 C.F.R. § 292.205(d) <i>before</i> selling energy pursuant to section 210 of PURPA in the future. Skip lines 11f through 11j. | |
| - | 11f Is the net power production capacity of your cogeneration facility, as indicated in line 7g above, less than or equal to 5,000 kW? | Ð |
| | Yes, the net power production capacity is less than or equal to 5,000 kW. 18 C.F.R. § 292.205(d)(4) provides a rebuttable presumption that cogeneration facilities of 5,000 kW and smaller capacity comply with the requirements for fundamental use of the facility's energy output in 18 C.F.R. § 292.205(d)(2). Applicant certifies its understanding that, should the power production capacity of the facility increase above 5,000 kW, then the facility must be recertified to (among other things) demonstrate compliance with 18 C.F.R. § 292.205(d)(2). Skip lines 11g through 11j. | |
| | No, the net power production capacity is greater than 5,000 kW. Demonstrate compliance with the requirements for fundamental use of the facility's energy output in 18 C.F.R. § 292.205(d)(2) by continuing on the next page at line 11g. | |

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| | Lines 11g through 11k below guide the applicant through the process of demonstrating compliance with the requirements for "fundamental use" of the facility's energy output. 18 C.F.R. § 292.205(d)(2). Only respond to the lines on this page if the instructions on the previous page direct you to do so. Otherwise, skip this page. | ne . | | |
|---|---|---|--|--|
| | 18 C.F.R. § 292.205(d)(2) requires that the electrical, thermal, chemical and mechanical output of an EPAct 2005 cogeneration facility is used fundamentally for industrial, commercial, residential or institutional purposes and i not intended fundamentally for sale to an electric utility, taking into account technological, efficiency, economic and variable thermal energy requirements, as well as state laws applicable to sales of electric energy from a qualifying facility to its host facility. If you were directed on the previous page to respond to the items on this p then your facility is an EPAct 2005 cogeneration facility that is subject to this "fundamental use" requirement. | is c, | | |
| e tinued) | The Commission's regulations provide a two-pronged approach to demonstrating compliance with the requirements for fundamental use of the facility's energy output. First, the Commission has established in 18 C.F.R. § 292.205(d)(3) a "fundamental use test" that can be used to demonstrate compliance with 18 C.F.R. § 292.205(d)(2). Under the fundamental use test, a facility is considered to comply with 18 C.F.R. § 292.205(d)(2) if at least 50 percent of the facility's total annual energy output (including electrical, thermal, chemical and mechanical energy output) is used for industrial, commercial, residential or institutional purposes. | | | |
| 2005 Requirements for Fundamental Use utput from Cogeneration Facilities (continued) | Second, an applicant for a facility that does not pass the fundamental use test may provide a narrative explanation of and support for its contention that the facility nonetheless meets the requirement that the electrical, thermal chemical and mechanical output of an EPAct 2005 cogeneration facility is used fundamentally for industrial, commercial, residential or institutional purposes and is not intended fundamentally for sale to an electric utility, taking into account technological, efficiency, economic, and variable thermal energy requirements, as well as stallaws applicable to sales of electric energy from a qualifying facility to its host facility. | l, , | | |
| ion Fa | Complete lines 11g through 11j below to determine compliance with the fundamental use test in 18 C.F.R. § 292.205(d)(3). Complete lines 11g through 11j even if you do not intend to rely upon the fundamental use test to demonstrate compliance with 18 C.F.R. § 292.205(d)(2). | | | |
| ents fc enerat | 11g Amount of electrical, thermal, chemical and mechanical energy output (net of internal generation plant losses and parasitic loads) expected to be used annually for industrial, commercial, residential or institutional purposes and not sold to an electric utility Image: second secon | MWh | | |
| en. | 11h Total amount of electrical, thermal, chemical and mechanical energy expected to be sold to an electric utility | MWh. | | |
| lequir from (| 11i Percentage of total annual energy output expected to be used for industrial, commercial, residential or institutional purposes and not sold to a utility = 100 * 11g /(11g + 11h) 0 | · 🔁 | | |
| EPAct 2005 F of Energy Output | 11j Is the response in line 11i greater than or equal to 50 percent? Yes. Your facility complies with 18 C.F.R. § 292.205(d)(2) by virtue of passing the fundamental use test provided in 18 C.F.R. § 292.205(d)(3). Applicant certifies its understanding that, if it is to rely upon passing the fundamental use test as a basis for complying with 18 C.F.R. § 292.205(d)(2), then the facility must comply with the fundamental use test both in the 12-month period beginning with the date the facility fip produces electric energy, and in all subsequent calendar years. No. Your facility does not pass the fundamental use test. Instead, you must provide in the Miscellaneous section starting on page 19 a narrative explanation of and support for why your facility meets the requirement that the electrical, thermal, chemical and mechanical output of an EPAct 2005 cogeneration facility is used fundamentally for industrial, commercial, residential or institutional purposes and is not intended fundamentally for sale to an electric utility, taking into account technological, efficiency, econor and variable thermal energy requirements, as well as state laws applicable to sales of electric energy from QF to its host facility. Applicants providing a narrative explanation of why their facility solud be found to comply with 18 C.F.R. § 292.205(d)(2) in spite of non-compliance with the fundamental use test may want review paragraphs 47 through 61 of Order No. 671 (accessible from the Commission's QF website at www.ferc.gov/QF), which provide discussion of the facts and circumstances that may support their explanation. Applicant should also note that the percentage reported above will establish the standard t that facility must comply with, both for the 12-month period beginning with the date the facility first produces electric energy, and in all subsequent calendar years. | g irst mic, n a o t to hat ch, | | |
| | the applicant should make sure that it reports appropriate values on lines 11g and 11h above to serve as a relevant annual standard, taking into account expected variations in production conditions. | the | | |

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Information Required for Topping-Cycle Cogeneration Facility

If you indicated in line 10a that your facility represents topping-cycle cogeneration technology, then you must respond to the items on pages 14 and 15. Otherwise, skip pages 14 and 15.

| | | or o Cor cyc | commercial process or used in a h mmission's regulations (18 C.F.R. § le cogeneration facility must be u | ping-cycle cogeneration facility is the net energy leating or cooling application. Pursuant to section §§ 292.202(c), (d) and (h)), the thermal energy ou reseful. In connection with this requirement, desc by responding to lines 12a and 12b below. | ons 292.202(c), (d) and (h) of the Itput of a qualifying topping- |
|-----------------------------|----------------|--|---|---|---|
| | | 12a | | mal host, and specify the annual average rate of nosts with multiple uses of thermal output, provi | ide the data for each use in 👘 🚽 |
| | , - | | Name of entity (thermal host) taking thermal output | Thermal host's relationship to facility; Thermal host's use of thermal output | Average annual rate of thermal output attributable to use (net of heat contained in process return or make-up water) |
| | | 1, | | Select thermal host's relationship to facility | · · |
| | | 1) | | Select thermal host's use of thermal output | Btu/h |
| | • • | - | | Select thermal host's relationship to facility | |
| ٩ | - | 2) | | Select thermal host's use of thermal output | Btu/h |
| 2 | • | 3) | | Select thermal host's relationship to facility | |
| ΙΫ́ | ىپ | 5) | · · · | Select thermal host's use of thermal output | Btu/h |
| in l | Thermal Output | | | Select thermal host's relationship to facility | |
| dd | Jut | 4) | | Select thermal host's use of thermal output | Btu/h |
| Usefulness of Topping-Cycle | | 5) | | Select thermal host's relationship to facility | |
| P | m | , כ | | Select thermal host's use of thermal output | Btu/h- |
| èss | Jer | 6) | | Select thermal host's relationship to facility | |
| <u>L</u> | Ē | 0) | | Select thermal host's use of thermal output | Btu/h |
| eft | | | Check here and continue in | the Miscellaneous section starting on page 19 if | |
| Us. | | the How not app is m out date use | rmal output identified above. In s wever, if your facility's use of therr reasonably clear, then you must lication may be rejected and/or a hade. (Exception: If you have prev put related to the instant facility, e and docket number to the orde | thermal output: At a minimum, provide a brief some cases, this brief description is sufficient to mal output is not common, and/or if the usefuln provide additional details as necessary to demo additional information may be required if an insu- tiously received a Commission certification appr then you need only provide a brief description of r certifying your facility with the indicated use. S I deviation from the previously authorized use.) n starting on page 19. | demonstrate usefulness. ess of such thermal output is nstrate usefulness. Your ifficient showing of usefulness oving a specific use of thermal of that use and a reference by Such exemption may not be |
| | | | | | |

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| | Applicants for facilities representing topping-cycle technology must demonstrate compliance with the topping- cycle operating standard and, if applicable, efficiency standard. Section 292.205(a)(1) of the Commission's regulations (18 C.F.R. § 292.205(a)(1)) establishes the operating standard for topping-cycle cogeneration facilities: the useful thermal energy output must be no less than 5 percent of the total energy output. Section 292.205(a)(2) (18 C.F.R. § 292.205(a)(2)) establishes the efficiency standard for topping-cycle cogeneration facilities for which installation commenced on or after March 13, 1980: the useful power output of the facility plus one-half the useful thermal energy output must (A) be no less than 42.5 percent of the total energy input of natural gas and oil to the facility; and (B) if the useful thermal energy output is less than 15 percent of the total energy output of the facility, be no less than 45 percent of the total energy input of natural gas and oil to the facility is exempt from the topping-cycle operating and/or efficiency standards, or to demonstrate that your facility is exempt from the efficiency standard based on the date that installation commenced, respond to lines 13a through 13l below. | | | | | |
|---|---|------------------------|--------|--|--|--|
| - | If you indicated in line 10a that your facility represents <i>both</i> topping-cycle and bottoming-cycle cogeneration technology, then respond to lines 13a through 13l below considering only the energy inputs and outputs attributable to the topping-cycle portion of your facility. Your mass and heat balance diagram must make clear which mass and energy flow values and system components are for which portion (topping or bottoming) of the cogeneration system. | | | | | |
| | 13a Indicate the annual average rate of useful thermal energy output made available | | - | | | |
| . ס | to the host(s), net of any heat contained in condensate return or make-up water | Btu/h | . - | | | |
| àn ọn | 13b Indicate the annual average rate of net electrical energy output | - kW | | | | |
| ati | 13c Multiply line 13b by 3,412 to convert from kW to Btu/h | | Ø | | | |
| ül | | 0 Btu/h | 9 | | | |
| Topping-Cycle Operating and Efficiency Value Calculation | 13d Indicate the annual average rate of mechanical energy output taken directly off. of the shaft of a prime mover for purposes not directly related to power production (this value is usually zero) | | | | | |
| | 13e Multiply line 13d by 2,544 to convert from hp to Btu/h | hp | | | | |
| | | 0 Btu/h | Ø | | | |
| | 13f Indicate the annual average rate of energy input from natural gas and oil | - Btu/h | | | | |
| ng Ier | 13g Topping-cycle operating value = 100 * 13a / (13a + 13c + 13e) | | · | | | |
| pi | 13h Topping-cycle efficiency value = $100 * (0.5*13a + 13c + 13e) / 13f$ | 0 % | Ð | | | |
| Ч Ц Ц Ц | | 0 % | | | | |
| H H | 13i Compliance with operating standard: Is the operating value shown in line 13g greaters | | | | | |
| | Yes (complies with operating standard) | | | | | |
| | 13j Did installation of the facility in its current form commence on or after March 13, 19 | 980 ? | Ø | | | |
| | Yes. Your facility is subject to the efficiency requirements of 18 C.F.R. § 292.205(a)(2). Demonstrate compliance with the efficiency requirement by responding to line 13k or 13l, as applicable, below. | | | | | |
| | No. Your facility is exempt from the efficiency standard. Skip lines 13k and 13l. | | | | | |
| | 13k Compliance with efficiency standard (for low operating value): If the operating value shown in line 13g is less than 15%, then indicate below whether the efficiency value shown in line 13h greater than or equal to 45%: | | | | | |
| | Yes (complies with efficiency standard) I No (does not comply wit | h efficiency standard) | | | | |
| | 13I Compliance with efficiency standard (for high operating value): If the operating va greater than or equal to 15%, then indicate below whether the efficiency value shown i equal to 42.5%: | | | | | |
| | Yes (complies with efficiency standard) | h efficiency standard) | | | | |

Information Required for Bottoming-Cycle Cogeneration Facility

If you indicated in line 10a that your facility represents bottoming-cycle cogeneration technology, then you must respond to the items on pages 16 and 17. Otherwise, skip pages 16 and 17.

| c) at | which at least some of the reject heat is then used for power production. Pursuant to sections 292.202(c) and (e) of the Commission's regulations (18 C.F.R. § 292.202(c) and (e)), the thermal energy output of a qualifying bottoming-cycle cogeneration facility must be useful. In connection with this requirement, describe the process(es) from which at least some of the reject heat is used for power production by responding to lines 14a and 14b below. 14a Identify and describe each thermal host and each bottoming-cycle cogeneration process engaged in by each | | | | |
|---|--|--|---|---|--|
| | h | | ottoming-cycle cogeneration processes, provide the | | |
| | N I | Name of entity (thermal host) performing the process from which at least some of the reject heat is used for power production | Thermal host's relationship to facility; Thermal host's process type | Has the energy input to the thermal host been augmented for purposes of increasing power production capacity? (if Yes, describe on p. 19) | |
| · 1) | | | Select thermal host's relationship to facility | Yes 🗌 No 🗍 📜 | |
| . - | | | Select thermal host's process type | | |
| 2) | | | Select thermal host's relationship to facility Select thermal host's process type | Yes No 🗌 🕚 | |
| | | | Select thermal host's relationship to facility | Yes No | |
| 3) | | | Select thermal host's process type | | |
| id fa | lentif icility iust p | fied above. In some cases, this 's process is not common, and provide additional details as ne | thermal output: At a minimum, provide a brief des brief description is sufficient to demonstrate useful /or if the usefulness of such thermal output is not re cessary to demonstrate usefulness. Your application | lness. However, if your easonably clear, then you on may be rejected and/or | |
| id fa m ac fa fa fa tc | lentif acility nust p dditio revio acility o the hang | fied above. In some cases, this r's process is not common, and provide additional details as ne ponal information may be requir usly received a Commission ce r, then you need only provide a order certifying your facility wi | brief description is sufficient to demonstrate useful /or if the usefulness of such thermal output is not re | Iness. However, if your easonably clear, then you on may be rejected and/or (Exception: If you have ocess related to the instant y date and docket number be used if any material | |
| pi fa tc cł | lentif acility nust p dditio revio acility o the hang | fied above. In some cases, this r's process is not common, and, provide additional details as ne ponal information may be requir usly received a Commission ce r, then you need only provide a order certifying your facility wi es to the process have been ma | brief description is sufficient to demonstrate useful /or if the usefulness of such thermal output is not re- cessary to demonstrate usefulness. Your application red if an insufficient showing of usefulness is made. ertification approving a specific bottoming-cycle pro- a brief description of that process and a reference by ith the indicated process. Such exemption may not | Iness. However, if your easonably clear, then you on may be rejected and/or (Exception: If you have ocess related to the instant y date and docket number be used if any material | |
| pi fa tc cł | lentif acility nust p dditio revio acility o the hang | fied above. In some cases, this r's process is not common, and, provide additional details as ne ponal information may be requir usly received a Commission ce r, then you need only provide a order certifying your facility wi es to the process have been ma | brief description is sufficient to demonstrate useful /or if the usefulness of such thermal output is not re- cessary to demonstrate usefulness. Your application red if an insufficient showing of usefulness is made. ertification approving a specific bottoming-cycle pro- a brief description of that process and a reference by ith the indicated process. Such exemption may not | Iness. However, if your easonably clear, then you on may be rejected and/or (Exception: If you have ocess related to the instant y date and docket number be used if any material | |
| pi fa tc cł | lentif acility nust p dditio revio acility o the hang | fied above. In some cases, this r's process is not common, and, provide additional details as ne ponal information may be requir usly received a Commission ce r, then you need only provide a order certifying your facility wi es to the process have been ma | brief description is sufficient to demonstrate useful /or if the usefulness of such thermal output is not re- cessary to demonstrate usefulness. Your application red if an insufficient showing of usefulness is made. ertification approving a specific bottoming-cycle pro- a brief description of that process and a reference by ith the indicated process. Such exemption may not | Iness. However, if your easonably clear, then you on may be rejected and/or (Exception: If you have ocess related to the instant y date and docket number be used if any material | |
| pi fa tc cł | lentif acility nust p dditio revio acility o the hang | fied above. In some cases, this r's process is not common, and, provide additional details as ne ponal information may be requir usly received a Commission ce r, then you need only provide a order certifying your facility wi es to the process have been ma | brief description is sufficient to demonstrate useful /or if the usefulness of such thermal output is not re- cessary to demonstrate usefulness. Your application red if an insufficient showing of usefulness is made. ertification approving a specific bottoming-cycle pro- a brief description of that process and a reference by ith the indicated process. Such exemption may not | Iness. However, if your easonably clear, then you on may be rejected and/or (Exception: If you have ocess related to the instant y date and docket number be used if any material | |
| pi fa tc cł | lentif acility nust p dditio revio acility o the hang | fied above. In some cases, this r's process is not common, and, provide additional details as ne ponal information may be requir usly received a Commission ce r, then you need only provide a order certifying your facility wi es to the process have been ma | brief description is sufficient to demonstrate useful /or if the usefulness of such thermal output is not re- cessary to demonstrate usefulness. Your application red if an insufficient showing of usefulness is made. ertification approving a specific bottoming-cycle pro- a brief description of that process and a reference by ith the indicated process. Such exemption may not | Iness. However, if your easonably clear, then you on may be rejected and/or (Exception: If you have ocess related to the instant y date and docket number be used if any material | |

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| Bottoming-Cycle Operating and Efficiency Value Calculation | Applicants for facilities representing bottoming-cycle technology and for which install March 13, 1990 must demonstrate compliance with the bottoming-cycle efficiency state the Commission's regulations (18 C.F.R. § 292.205(b)) establishes the efficiency standar cogeneration facilities: the useful power output of the facility must be no less than 45 of natural gas and oil for supplementary firing. To demonstrate compliance with the b standard (if applicable), or to demonstrate that your facility is exempt from this standard installation of the facility began, respond to lines 15a through 15h below. | ndards. Section 292.205(b) of d for bottoming-cycle percent of the energy input ottoming-cycle efficiency |
|---|--|--|
| | If you indicated in line 10a that your facility represents <i>both</i> topping-cycle and bottom technology, then respond to lines 15a through 15h below considering only the energy attributable to the bottoming-cycle portion of your facility. Your mass and heat balance which mass and energy flow values and system components are for which portion of t (topping or bottoming). | rinputs and outputs te diagram must make clear |
| | 15a Did installation of the facility in its current form commence on or after March 13, 1 | 1980? |
| | Yes. Your facility is subject to the efficiency requirement of 18 C.F.R. § 292.205 with the efficiency requirement by responding to lines 15b through 15h below No. Your facility is exempt from the efficiency standard. Skip the rest of page | <i>.</i> |
| | 15b Indicate the annual average rate of net electrical energy output | , |
| | 15c Multiply line 15b by 3,412 to convert from kW to Btu/h | • 0 Btu/h |
| | 15d Indicate the annual average rate of mechanical energy output taken directly off of the shaft of a prime mover for purposes not directly related to power production (this value is usually zero) | hp |
| | 15e Multiply line 15d by 2,544 to convert from hp to Btu/h | 0 Btu/h |
| | 15f Indicate the annual average rate of supplementary energy input from natural gas or oil | Btu/h |
| • | 15g Bottoming-cycle efficiency value = 100 * (15c + 15e) / 15f | . <u> </u> |
| - | 15h Compliance with efficiency standard: Indicate below whether the efficiency value than or equal to 45%: | |
| | Yes (complies with efficiency standard) No (does not comply wi | th efficiency standard) |

| Form | |
|------|--|
| | |

Audit Notes

Certificate of Completeness, Accuracy and Authority

Applicant must certify compliance with and understanding of filing requirements by checking next to each item below and signing at the bottom of this section. Forms with incomplete Certificates of Completeness, Accuracy and Authority will be rejected by the Secretary of the Commission.

Signer identified below certifies the following: (check all items and applicable subitems)

He or she has read the filing, including any information contained in any attached documents, such as cogeneration mass and heat balance diagrams, and any information contained in the Miscellaneous section starting on page 19, and knows its contents.

He or she has provided all of the required information for certification, and the provided information is true as stated, to the best of his or her knowledge and belief.

He or she possess full power and authority to sign the filing; as required by Rule 2005(a)(3) of the Commission's Rules of Practice and Procedure (18 C.F.R. § 385.2005(a)(3)), he or she is one of the following: (check one)

The person on whose behalf the filing is made

An officer of the corporation, trust, association, or other organized group on behalf of which the filing is made

- An officer, agent, or employe of the governmental authority, agency, or instrumentality on behalf of which the filing is made
- A representative qualified to practice before the Commission under Rule 2101 of the Commission's Rules of Practice and Procedure (18 C.F.R. § 385.2101) and who possesses authority to sign
- He or she has reviewed all automatic calculations and agrees with their results, unless otherwise noted in the Miscellaneous section starting on page 19.

He or she has provided a copy of this Form 556 and all attachments to the utilities with which the facility will interconnect and transact (see lines 4a through 4d), as well as to the regulatory authorities of the states in which the

facility and those utilities reside. See the Required Notice to Public Utilities and State Regulatory Authorities section on page 3 for more information.

Provide your signature, address and signature date below. Rule 2005(c) of the Commission's Rules of Practice and Procedure (18 C.F.R. § 385.2005(c)) provides that persons filing their documents electronically may use typed characters representing his or her name to sign the filed documents. A person filing this document electronically should sign (by typing his or her name) in the space provided below.

| Your Signature | Your address | Date |
|---------------------|-----------------------------------|-----------|
| | 600 University Street, Suite 3600 | |
| Jennifer L. Mersing | Seattle, WA 98101 | 6/25/2019 |

. Commission Staff Use Only:

Miscellaneous

Use this space to provide any information for which there was not sufficient space in the previous sections of the form to provide. For each such item of information *clearly identify the line number that the information belongs to*. You may also use this space to provide any additional information you believe is relevant to the certification of your facility.

Your response below is not limited to one page. Additional page(s) will automatically be inserted into this form if the length of your response exceeds the space on this page. Use as many pages as you require.

Line 5b (see also Line 11):

AES Lumos Holdings, LLC - 26% AES Corporation - 26% SPower OpCo A Blocker LLC - 49% Ullico Infrastructure sPower Holdco, LLC - 24% Ullico Infrastructure Master Fund, L.P. - 24% UIF GP, LLC - 24% Ullico Inc. - 24% U.S. Renewables Holdco A, LLC - 24% SGIO Tactical Fund, L.P. - 24% StepStone Group LP - 24%

On April 18, 2019, the StepStone Group LP, a global private markets firm (through U.S. Renewables Holdco A, LLC, an indirect subsidiary of and a manager-managed limited liability company managed by StepStone Group LP) and Ullico Inc., a labor-owned insurance and financial services company (through its subsidiary Ullico Infrastructure sPower Holdco, LLC) each acquired a 24% indirect interest in sPower OpCo A, LLC and Eden Solar, LLC ("Eden Solar").

On July 25, 2017, AES Corporation, through AES Lumos Holdings, LLC, and Alberta Investment Management Corporation, through PIP5 Lumos LLC, each acquired fifty percent (50%) (for a cumulative total of one hundred percent (100%)) of the common equity voting interests in FTP Power LLC.

On December 2, 2015, two transactions were consummated that (1) changed the upstream ownership of Eden Solar and (2) transferred control over dispatch and day-to-day operations of the facility. As a result of the first transaction (see FERC Docket No. EC16-14), the upstream ownership of Eden Solar is as follows: (1) 1% of the membership interests in Eden Solar are held by FTS Eden Managing Member, LLC ("Eden MM") as the Managing Member and 99% of the membership interests in Eden Solar are held by STCE Eden Solar, LLC as a passive tax equity investor, and (2) 100% of the membership interests in Eden MM are held by sPower FinCo 3 LLC ("FinCo 3").

As a result of the second transaction (see FERC Docket No. EC16-4), Eden Solar leased and transferred control over the facility to Land of the Sky MT, LLC ("Land of the Sky"). Land of the Sky, as lessee, controls dispatch of the facility and directs day-to-day operations. Therefore, Land of the Sky has been designated the facility operator in Line 5c.