EXHIBIT E PERMITS REQUIRED FOR CONSTRUCTION AND OPERATION

OAR 345-021-0010(1)(e)

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E.1 OVERVIEW

OAR 345-021-0010(1)(e) Information about permits needed for construction and operation of the facility, including:

<u>Response</u>: This Exhibit identifies and describes the permits required for the construction and operation of the proposed Madras Solar Energy Facility (Facility).

E.2 IDENTIFICATION AND DESCRIPTION OF REQUIRED PERMITS

OAR 345-021-0010(1)(e)(A) Identification of all federal, state and local government permits related to the siting of the proposed facility, a legal citation of the statute, rule or ordinance governing each permit, and the name, mailing address, email address and telephone number of the agency or office responsible for each permit.

OAR 345-021-0010(1)(e)(B) A description of each permit, the reasons the permit is needed for construction or operation of the facility and the applicant's analysis of whether the permit should or should not be included in and governed by the site certificate.

E.2.1 Federal Permits

<u>Response</u>: Table E-1 identifies and describes the federal permits required for construction and operation of the Facility.

As stated in Table E-1, the Federal Aviation Administration (FAA) issued No Hazard Determinations for the Facility on September 3, 2019 (see Attachment E-1). The Applicant's application for an incidental eagle take permit is included as confidential Attachment P-8 to Exhibit P.

Permit Name	Agency Name and Address	Authority	Description
Notice of Proposed Construction or Alteration (Form 7460-1)	Federal Aviation Administration Attention: Dan Shoemaker Airspace Specialist Seattle Obstruction Evaluation Group Dan.Shoemaker@faa.gov (425) 227-2791	Federal Aviation Act of 1958 (14 <i>United States</i> <i>Code</i> [U.S.C.] Section 44718); 14 <i>Code of</i> <i>Federal Regulations</i> [CFR] Section 77	Applicants proposing construction or alterations that may affect navigable airspace must file a Notice of Proposed Construction or Alteration with the FAA. The FAA issued a Determination of No Hazard to Air Navigation on September 3, 2019 (Attachment E-1). However, no permit is issued by the FAA. This federal process is not within the jurisdiction of the Energy Facility Siting Council (EFSC) and therefore should not be included in the site certificate.
Supplemental Notice of Actual Construction or Alteration (Form 7460-2)	Federal Aviation Administration Attention: Dan Shoemaker Airspace Specialist Seattle Obstruction Evaluation Group Dan.Shoemaker@faa.gov (425) 227-2791	Federal Aviation Act of 1958 (14 U.S.C. Section 44718); 14 CFR Section 77	Submission of the Supplemental Notice of Actual Construction or Alteration form must occur within 5 days after construction reaches its greatest height as specified in the No Hazard Determination. No permit is issued by the FAA. This federal process is not within the jurisdiction of EFSC and therefore should not be included in the site certificate.
Eagle Take Permit (Incidental Take) (Form 3-200-71)	U.S. Fish and Wildlife Service Attention: Matt Stuber Eagle Coordinator Interior Region 9 3040 Biddle Rd. Medford, OR 97504 Matthew_Stuber@fws.gov (541) 618-2201	Bald and Golden Eagle Protection Act, 50 CFR Section 22.26	The 9-month construction phase of the Facility could potentially disturb a pair of golden eagles within the nearby Willow Creek territory. In coordination with the U.S. Fish and Wildlife Service, the Applicant has applied for this voluntary permit to document and formalize avoidance, minimization, mitigation, and monitoring measures for reducing the likelihood of noise disturbance. This federal process is not within the jurisdiction of EFSC and therefore should not be included in the site certificate.

Table E-1. Federal Permits Required for Construction and Operation

E.2.2 State Permits: Not Federally Delegated

<u>Response</u>: Table E-2 identifies and describes the state permits not federally delegated and required for construction and operation of the Facility.

Permit Name	Agency Name and Address	Authority	Description
Energy Facility Site Certificate	Oregon Department of Energy and Energy Facility Siting Council Attention: Chase McVeigh- Walker 550 Capitol Street N.E. Salem, OR 97301 Chase.McVeigh- Walker@Oregon.gov (503) 934-1582	Oregon Revised Statute (ORS) Chapter 469.300 et seq.; Oregon Administrative Rule (OAR) Chapter 345, Divisions 1, 15, 21- 24, 26-27	The Facility is an "energy facility" as defined in ORS Chapter 469.300(11) and must be authorized through a site certificate issued by EFSC. The Applicant has submitted a site certificate application pursuant to OAR 345- 015-0300(3).
General Water Pollution Control Facilities Permit, WPCF-1700-B, Washwater Discharge from Equipment Cleaning	Oregon Department of Environmental Quality (DEQ) Eastern Region 700 SE Emigrant, Suite 330 Pendleton, OR 97801 (541) 276-4063	ORS 468B; OAR Chapter 340, Division 45	The solar modules may be washed twice annually and the washwater will be released to the ground and allowed to evaporate and infiltrate. The WPCF-1700-B permit covers equipment-cleaning activities that discharge washwater by means of evaporation, seepage, or irrigation, including both fixed and mobile washing operations. If coverage under the 1700-B permit is deemed necessary, the Applicant's third- party contractor who will conduct the washing activities will seek coverage under the WPCF-1700-B permit from DEQ following completion of construction and before initiating any washing activities. Therefore, this permit should not be included in and governed by the site certificate.
Oversize Load Movement Permit/Load Registration	Oregon Department of Transportation Motor Carriers Transportation Division 550 Capitol Street NE Salem, OR 97301 Christy Jordan Christy.A.Jordan@odot.state.or. us (503) 378-6192	ORS Chapter 818.030; OAR Chapter 734, Divisions 51, 82	Access to the Facility will be provided by state highways. If large or overweight equipment needs to be moved across state roads, a permit and load registration will be required. The Applicant's third-party contractor will obtain this permit and load registration from the Oregon Department of Transportation before transporting large or overweight equipment and therefore this permit should not be included in and governed by the site certificate.
General Water Pollution Control Facilities Permit, WPCF-1000, Gravel Mining and Batch Plant	Oregon Department of Environmental Quality Eastern Region Eastern Region 700 SE Emigrant, Suite 330 Pendleton, OR 97801 (541) 276-4063 Department of Geology and Mineral Industries Mineral Land Regulation and Reclamation Program 229 Broadalbin St. SW Albany, OR 97321 (541) 967-2039	ORS 468B; OAR Chapter 340, Division 45	A WPCF-1000 authorizes the permittee to operate a wastewater collection, treatment, control, and disposal system for sand, gravel, and other nonmetallic mineral quarrying and mining operations, including asphalt-mix batch plants, concrete batch plants, and other related activities. If a temporary batch plant is required for Facility construction, the Applicant's third- party contractor will obtain a WPCF-1000 permit directly from DEQ and therefore this permit should not be included in and governed by the site certificate.

Table E-2. State Permits Not Federally Delegated

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Permit Name	Agency Name and Address	Authority	Description	
Archaeological Excavation Permit	Oregon Parks and Recreation Department, State Historic Preservation Office 725 Summer Street NE, Suite C Salem, OR 97301 Matt Diederich, MAIS mattew.diederich@oregon.gov (503) 986-0577	ORS Chapters 97, 358, and 390; OAR Chapter 736, Division 51 (Permit and Conditions for Excavation or Removal of Archaeological or Historical Materials on Private Land)	During Facility construction, if a previously unidentified archaeological site is discovered, all construction will cease and the Applicant will report the finding to the State Historic Preservation Office (SHPO) immediately. In that instance, SHPO will require an archaeological excavation permit. The Applicant does not anticipate that this permit will be required (see Exhibit S for further discussion). However, should this permit be required, the Applicant will obtain it from SHPO and therefore this permit should not be included in and governed by the site certificate.	

Table E-2. State Permits Not Federally Delegated

E.2.3 State Permits: Federally Delegated

<u>Response</u>: Table E-3 identifies and describes the state permits federally delegated and required for construction and operation of the Facility. These permits, if applicable to the Facility, should be included in and governed by the site certificate.

Permit Name	Agency Name and Address	Authority	Description
National Pollution Discharge Elimination System (NPDES) Permit, 1200-C Construction Stormwater NPDES Permit	Oregon Department of Environmental Quality – Water Quality Division Attention: Jackie Ray Eastern Region 800 SE Emigrant Avenue, Suite 330 Pendleton, OR 97801 <u>ray.jackie@deq.state.or.us</u> (541) 278-4605	Clean Water Act, Section 402 (33 U.S.C. Section 1342); 40 CFR Section 122; ORS Chapters 468 and 468B; OAR Chapter 340, Division 45	A 1200-C Permit regulates stormwater runoff from construction activities that disturb more than 1 acre of ground. Facility construction will disturb more than 1 acre and therefore a 1200-C Permit is required, as described further in Exhibit I. Attachment I-1 in Exhibit I. Attachment I-1 in Exhibit I contains the Applicant's NPDES permit application. The Applicant will obtain this permit directly from DEQ as it is outside the jurisdiction of EFSC and should not be included in and governed by the site certificate.
Basic Air Contaminant Discharge Permit (ACDP)	Oregon Department of Environmental Quality – Air Quality Division Eastern Region 475 NE Bellevue, Suite 110 Bend, OR 97701 (541) 633-2026	Clean Air Act (42 U.S.C. Section 7401 et seq.). 40 CFR Parts 50, 51, and 52 ORS Chapters 468 and 468A OAR Chapter 340, Division 216	A Basic ACDP authorizes the permittee to operate a stationary or portable concrete manufacturing plant that produces more than 5,000 but less than 25,000 cubic yards per year output. If a portable concrete manufacturing plant is required for Facility construction, a Basic ACDP will be obtained from DEQ. Attachment E-2 contains the Applicant's ACDP application. The Applicant will obtain this permit directly from DEQ as it is outside the jurisdiction of EFSC and should not be included in and governed by the site certificate.

E.2.4 Local Permits

<u>Response</u>: Table E-4 identifies and describes the local permits required for construction and operation of the Facility. These permits, if applicable to the Facility, should be included in and governed by the site certificate.

Permit Name	Agency Name and Address	Authority	Description
Conditional Use Permit	Jefferson County Community Development Chet Singleton, Community Development Director 85 SE "D" Street Madras, Oregon 97741 Chet.Singleton@co.jefferson.or.us 541-475-4462	Jefferson County Zoning Ordinance Sections 301.5, 433, and 602	Construction and operation of "Commercial utility facilities for the purpose of generating power for public use by sale" is a conditional use in the A-1 zone. The Applicant elects to obtain an EFSC determination under ORS Chapter 469.504(1)(b). Under ORS 469.401(3), following issuance of the site certificate, the County, upon the Applicant's submission of the proper application and fee, shall issue the permits addressed in the site certificate, subject only to the conditions set forth in the site certificate and without hearings or other proceedings.
Jefferson County Right-of-Way Permit	Jefferson County Community Development Chet Singleton, Community Development Director 85 SE "D" Street Madras, Oregon 97741 Chet.Singleton@co.jefferson.or.us 541-475-4462	ORS Chapter 374.305 and Jefferson County Road Department	A Jefferson County Right-of-Way Use Permit is required whenever an individual, contractor, or utility company needs to perform work in the public road right-of-way. If a Right-of-Way Use Permit is determined by Jefferson County to be required, the Applicant's third-party contractor will obtain such permit directly from Jefferson County. Therefore, this permit should not be included in and governed by the site certificate.
Building and Utility Permits	Jefferson County Community Development Chet Singleton, Community Development Director 85 SE "D" Street Madras, Oregon 97741 Chet.Singleton@co.jefferson.or.us 541-475-4462	ORS Chapter 455 Building Code	The Facility structures and components (aside from the solar panels themselves) will require building permits. The Applicant's third-party contractor will obtain such permits directly from Jefferson County. Therefore, this permit should not be included in and governed by the site certificate.

Table E-4. Local Permits

E.3 PERMIT APPLICATIONS NOT FEDERALLY DELEGATED

OAR 345-021-0010(1)(e)(C) For any state or local government agency permits, licenses or certificates that are proposed to be included in and governed by the site certificate, evidence to support findings by the Council that construction and operation of the proposed facility will comply with the statutes, rules and standards applicable to the permit. The applicant may show this evidence:

(i) In Exhibit J for permits related to wetlands.

<u>Response</u>: No permits are required related to wetlands. Please see Exhibit J.

(ii) In Exhibit O for permits related to water rights.

<u>Response</u>: During Facility construction and operation, the Facility will purchase water from the Deschutes Valley Water District from its domestic water supply system. No groundwater permit,

surface water permit, or water right transfer is needed because the Deschutes Valley Water District already has the permits and water rights to the sources of the water.

See Exhibit O for further discussion.

E.4 PERMIT APPLICATIONS FEDERALLY DELEGATED

OAR 345-021-0010(1)(e)(D) For federally-delegated permit applications, evidence that the responsible agency has received a permit application and the estimated date when the responsible agency will complete its review and issue a permit decision.

Response: The Applicant has separately prepared a NPDES 1200-C Permit application for the Facility (Attachment I-1 in Exhibit I). The Applicant anticipates a permit decision from DEQ before the start of Facility construction. Attachment I-2 in Exhibit I contains a response from DEQ verifying receipt of the Applicant's application.

The Applicant has also separately prepared a Basic Air Contaminant Discharge Permit application for the proposed temporary batch plant; the application is provided here as Attachment E-2. Attachment E-3 contains a response from DEQ verifying receipt of the Applicant's application. The Applicant anticipates a permit decision from DEQ before the start of Facility construction.

E.5 THIRD-PARTY STATE OR LOCAL PERMITS

OAR 345-021-0010(1)(e)(E) If the applicant relies on a state or local government permit or approval issued to a third party, identification of any such third-party permit and for each:

(i) Evidence that the applicant has, or has a reasonable likelihood of entering into, a contract or other agreement with the third party for access to the resource or service to be secured by that permit.

Response: Three state permits and one local permit, if required, will be obtained by the Applicant's third-party contractors. The Applicant's parent company, Ecoplexus, routinely relies on contractors to obtain a variety of third-party permits for constructing energy facilities such as those described in Exhibit D. Ecoplexus maintains relationships with a variety of top-tier regional and national civil, electrical, and construction contractors with experience constructing renewable energy facilities, and will select a contractor from this pool of qualified contractors to construct the Facility and secure any required third-party state or local permits. As with past projects, Ecoplexus will only select a contractor (or contractors) who have a reasonable likelihood of securing the required permits.

An Oversize Load Movement Permit/Load Registration will be required for transporting large or overweight equipment to the site over state roads. This permit is a common permit required for the construction of renewable energy facilities in Oregon given the nature of the facility components. If the Facility requires work within Jefferson County right-of-way, a Right-of-Way Permit will be required. A contractor familiar with constructing renewable energy facilities should also be familiar with obtaining these permits from the DEQ and counties. Contractors routinely obtain these permits for delivery of oversize or overweight equipment over state roads or work within local right-of-way.

If a temporary concrete batch plant is required, Ecoplexus will direct its contractor to obtain a General Water Pollution Control Facilities Permit (WPCF-1000) to manage wastewater and stormwater from the plant. This permit is occasionally required for the construction of renewable energy facilities, which require concrete footings, pads, and other infrastructure. A contractor familiar with constructing renewable energy facilities is also familiar with obtaining this permit from the DEQ, and Ecoplexus will ensure that whichever contractor is ultimately selected indeed does have experience with obtaining such permit, provided that one is needed.

If solar module washing to improve production during operations is required, Ecoplexus will direct its contractor to coordinate with DEQ obtain a General Water Pollution Control Facilities Washwater Discharge from Equipment Cleaning Permit (WPCF-1700-B) if deemed necessary. This permit covers equipment-cleaning activities that discharge washwater by means of evaporation, seepage, or irrigation, including both fixed and mobile washing operations. The Applicant's third-party contractor who will conduct the washing activities will coordinate with DEQ and, if deemed necessary, seek coverage under the permit from DEQ following completion of

construction and before initiating any washing activities. To secure coverage under WPCF-1700-B, DEQ directs applicants to request coverage under the permit at least 30 days prior to the planned activity, although DEQ may accept applications filed less than 30 days from the planned activity on a case-by-case basis. Given the short permitting timeline and the fact that any modulewashing activities would fit squarely within the terms of the general permit, if solar module washing is required and coverage under the permit is deemed necessary, the Applicant's thirdparty contractor has a high likelihood of obtaining permit coverage long before coverage may be needed.

The Applicant's third-party contractors will also obtain any requisite Jefferson County building and utility permits prior to construction.

(ii) Evidence that the third party has, or has a reasonable likelihood of obtaining, the necessary permit.

<u>Response</u>: As described above, the Applicant will select a contractor with proven credentials for acquiring applicable permits.

(iii) An assessment of the impact of the proposed facility on any permits that a third party has obtained and on which the applicant relies to comply with any applicable Council standard.

<u>Response</u>: A third-party contractor has not been selected. Accordingly, this provision is not applicable.

E.6 THIRD-PARTY FEDERALLY DELEGATED PERMITS

OAR 345-021-0010(1)(e)(F) If the applicant relies on a federally-delegated permit issued to a third party, identification of any such third-party permit and for each:

- (i) Evidence that the applicant has, or has a reasonable likelihood of entering into, a contract or other agreement with the third party for access to the resource or service to be secured by that permit.
- (ii) Evidence that the responsible agency has received a permit application.
- (iii) The estimated date when the responsible agency will complete its review and issue a permit decision.

Response: The Applicant will not rely on a federally-delegated permit issued to a third party.

E.7 MONITORING

OAR 345-021-0010(1)(e)(G) The applicant's proposed monitoring program, if any, for compliance with permit conditions.

<u>Response</u>: The Applicant will comply with monitoring requirements from EFSC and any jurisdictions responsible for granting Facility permits or approvals. Specific monitoring measures are described in the applicable Exhibits of this Application as follows:

• Requirements for erosion control monitoring and reporting are described in Exhibits H and I.

E.8 SUMMARY

On the basis of the information presented above, the Applicant has satisfied the requirements of OAR 345-021-0010(1)(e).

Attachment E-1 Federal Aviation Administration Determination of No Hazard to Air Navigation



Issued Date: 09/03/2019

Pete Parkinson Ecoplexus 101 Second Street Suite 1250 San Francisco, CA 94105

**** DETERMINATION OF NO HAZARD TO AIR NAVIGATION ****

The Federal Aviation Administration has conducted an aeronautical study under the provisions of 49 U.S.C., Section 44718 and if applicable Title 14 of the Code of Federal Regulations, part 77, concerning:

Structure:	Solar Panel Madras PV1
Location:	Madras, OR
Latitude:	44-40-04.99N NAD 83
Longitude:	121-14-03.88W
Heights:	2336 feet site elevation (SE)
	40 feet above ground level (AGL)
	2376 feet above mean sea level (AMSL)

This aeronautical study revealed that the structure does not exceed obstruction standards and would not be a hazard to air navigation provided the following condition(s), if any, is(are) met:

It is required that FAA Form 7460-2, Notice of Actual Construction or Alteration, be e-filed any time the project is abandoned or:

_____ At least 10 days prior to start of construction (7460-2, Part 1) __X__ Within 5 days after the construction reaches its greatest height (7460-2, Part 2)

Based on this evaluation, marking and lighting are not necessary for aviation safety. However, if marking/ lighting are accomplished on a voluntary basis, we recommend it be installed in accordance with FAA Advisory circular 70/7460-1 L Change 2.

- (a) the construction is started (not necessarily completed) and FAA Form 7460-2, Notice of Actual Construction or Alteration, is received by this office.
- (b) extended, revised, or terminated by the issuing office.
- (c) the construction is subject to the licensing authority of the Federal Communications Commission (FCC) and an application for a construction permit has been filed, as required by the FCC, within 6 months of the date of this determination. In such case, the determination expires on the date prescribed by the FCC for completion of construction, or the date the FCC denies the application.

This determination is based, in part, on the foregoing description which includes specific coordinates, heights, frequency(ies) and power. Any changes in coordinates, heights, and frequencies or use of greater power, except those frequencies specified in the Colo Void Clause Coalition; Antenna System Co-Location; Voluntary Best Practices, effective 21 Nov 2007, will void this determination. Any future construction or alteration, including increase to heights, power, or the addition of other transmitters, requires separate notice to the FAA. This determination includes all previously filed frequencies and power for this structure.

If construction or alteration is dismantled or destroyed, you must submit notice to the FAA within 5 days after the construction or alteration is dismantled or destroyed.

This determination does include temporary construction equipment such as cranes, derricks, etc., which may be used during actual construction of the structure. However, this equipment shall not exceed the overall heights as indicated above. Equipment which has a height greater than the studied structure requires separate notice to the FAA.

This determination concerns the effect of this structure on the safe and efficient use of navigable airspace by aircraft and does not relieve the sponsor of compliance responsibilities relating to any law, ordinance, or regulation of any Federal, State, or local government body.

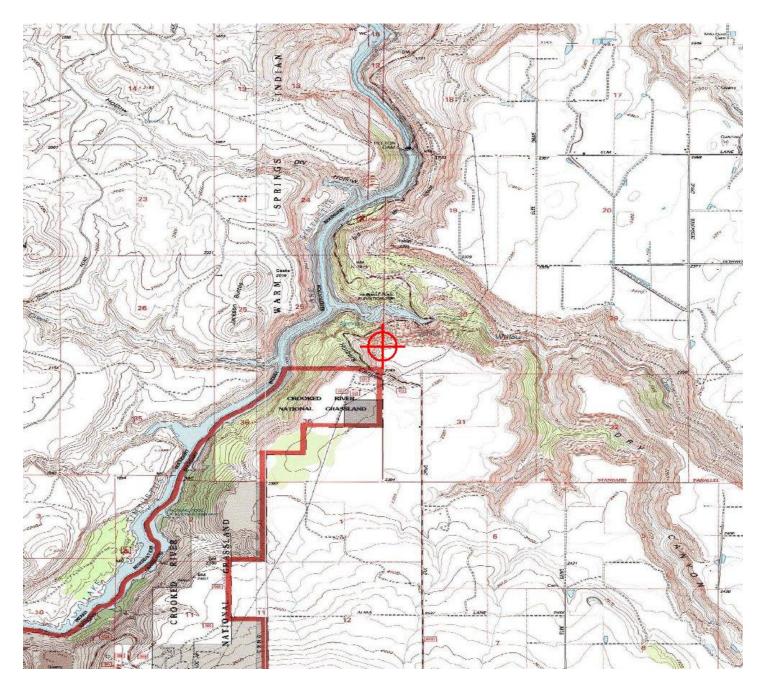
If we can be of further assistance, please contact our office at (206) 231-2990, or paul.holmquist@faa.gov. On any future correspondence concerning this matter, please refer to Aeronautical Study Number 2019-ANM-5569-OE.

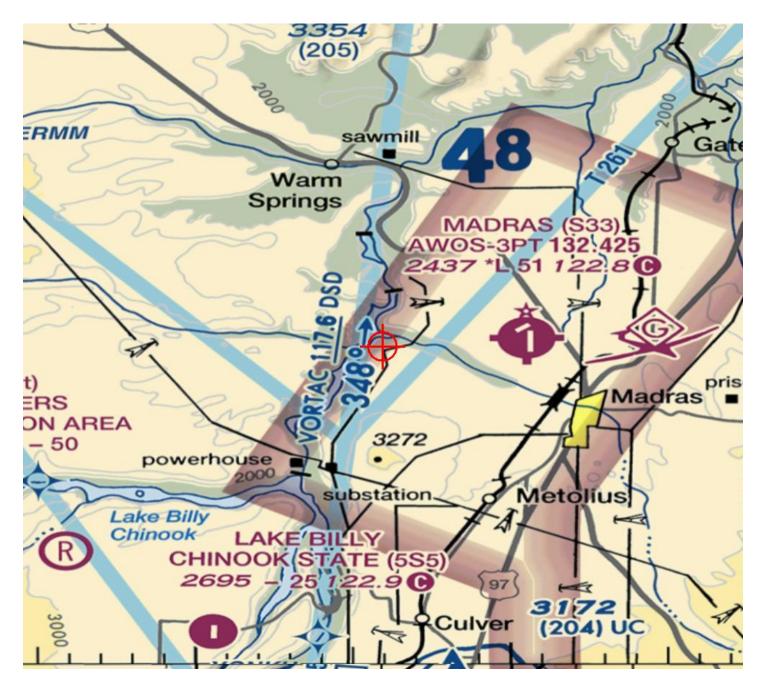
Signature Control No: 414286826-416175015 Paul Holmquist Specialist

(DNE)

Attachment(s) Map(s)

TOPO Map for ASN 2019-ANM-5569-OE







Issued Date: 09/03/2019

Pete Parkinson Ecoplexus 101 Second Street Suite 1250 San Francisco, CA 94105

**** DETERMINATION OF NO HAZARD TO AIR NAVIGATION ****

The Federal Aviation Administration has conducted an aeronautical study under the provisions of 49 U.S.C., Section 44718 and if applicable Title 14 of the Code of Federal Regulations, part 77, concerning:

Structure:	Solar Panel Madras PV1
Location:	Madras, OR
Latitude:	44-40-04.31N NAD 83
Longitude:	121-13-33.10W
Heights:	2386 feet site elevation (SE)
	40 feet above ground level (AGL)
	2426 feet above mean sea level (AMSL)

This aeronautical study revealed that the structure does not exceed obstruction standards and would not be a hazard to air navigation provided the following condition(s), if any, is(are) met:

It is required that FAA Form 7460-2, Notice of Actual Construction or Alteration, be e-filed any time the project is abandoned or:

_____ At least 10 days prior to start of construction (7460-2, Part 1) __X__ Within 5 days after the construction reaches its greatest height (7460-2, Part 2)

Based on this evaluation, marking and lighting are not necessary for aviation safety. However, if marking/ lighting are accomplished on a voluntary basis, we recommend it be installed in accordance with FAA Advisory circular 70/7460-1 L Change 2.

- (a) the construction is started (not necessarily completed) and FAA Form 7460-2, Notice of Actual Construction or Alteration, is received by this office.
- (b) extended, revised, or terminated by the issuing office.
- (c) the construction is subject to the licensing authority of the Federal Communications Commission (FCC) and an application for a construction permit has been filed, as required by the FCC, within 6 months of the date of this determination. In such case, the determination expires on the date prescribed by the FCC for completion of construction, or the date the FCC denies the application.

This determination is based, in part, on the foregoing description which includes specific coordinates, heights, frequency(ies) and power. Any changes in coordinates, heights, and frequencies or use of greater power, except those frequencies specified in the Colo Void Clause Coalition; Antenna System Co-Location; Voluntary Best Practices, effective 21 Nov 2007, will void this determination. Any future construction or alteration, including increase to heights, power, or the addition of other transmitters, requires separate notice to the FAA. This determination includes all previously filed frequencies and power for this structure.

If construction or alteration is dismantled or destroyed, you must submit notice to the FAA within 5 days after the construction or alteration is dismantled or destroyed.

This determination does include temporary construction equipment such as cranes, derricks, etc., which may be used during actual construction of the structure. However, this equipment shall not exceed the overall heights as indicated above. Equipment which has a height greater than the studied structure requires separate notice to the FAA.

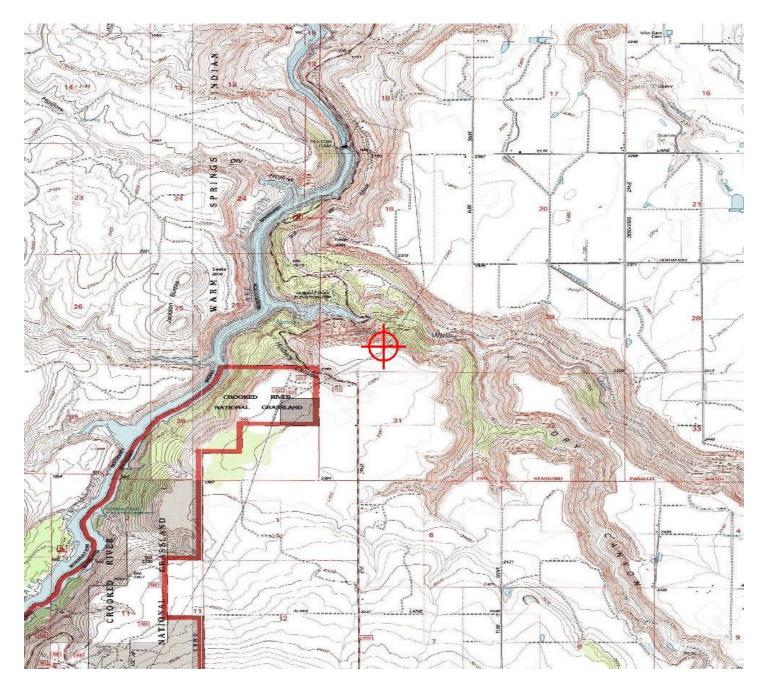
This determination concerns the effect of this structure on the safe and efficient use of navigable airspace by aircraft and does not relieve the sponsor of compliance responsibilities relating to any law, ordinance, or regulation of any Federal, State, or local government body.

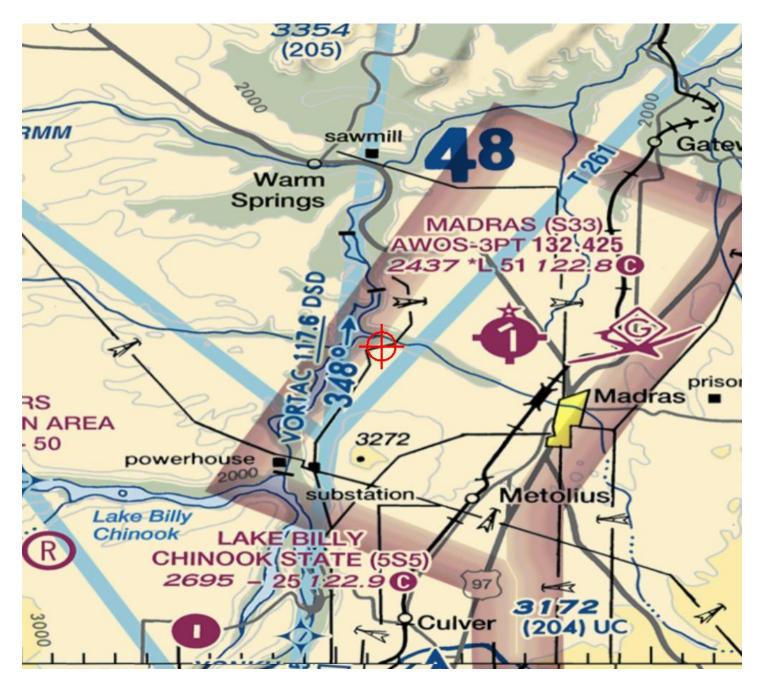
If we can be of further assistance, please contact our office at (206) 231-2990, or paul.holmquist@faa.gov. On any future correspondence concerning this matter, please refer to Aeronautical Study Number 2019-ANM-5570-OE.

Signature Control No: 414286828-416175018 Paul Holmquist Specialist

Attachment(s) Map(s) (DNE)

TOPO Map for ASN 2019-ANM-5570-OE







Issued Date: 09/03/2019

Pete Parkinson Ecoplexus 101 Second Street Suite 1250 San Francisco, CA 94105

**** DETERMINATION OF NO HAZARD TO AIR NAVIGATION ****

The Federal Aviation Administration has conducted an aeronautical study under the provisions of 49 U.S.C., Section 44718 and if applicable Title 14 of the Code of Federal Regulations, part 77, concerning:

Structure:	Solar Panel Madras PV1
Location:	Madras, OR
Latitude:	44-39-55.33N NAD 83
Longitude:	121-13-18.05W
Heights:	2383 feet site elevation (SE)
-	40 feet above ground level (AGL)
	2423 feet above mean sea level (AMSL)

This aeronautical study revealed that the structure does not exceed obstruction standards and would not be a hazard to air navigation provided the following condition(s), if any, is(are) met:

It is required that FAA Form 7460-2, Notice of Actual Construction or Alteration, be e-filed any time the project is abandoned or:

_____ At least 10 days prior to start of construction (7460-2, Part 1) __X__ Within 5 days after the construction reaches its greatest height (7460-2, Part 2)

Based on this evaluation, marking and lighting are not necessary for aviation safety. However, if marking/ lighting are accomplished on a voluntary basis, we recommend it be installed in accordance with FAA Advisory circular 70/7460-1 L Change 2.

- (a) the construction is started (not necessarily completed) and FAA Form 7460-2, Notice of Actual Construction or Alteration, is received by this office.
- (b) extended, revised, or terminated by the issuing office.
- (c) the construction is subject to the licensing authority of the Federal Communications Commission (FCC) and an application for a construction permit has been filed, as required by the FCC, within 6 months of the date of this determination. In such case, the determination expires on the date prescribed by the FCC for completion of construction, or the date the FCC denies the application.

This determination is based, in part, on the foregoing description which includes specific coordinates, heights, frequency(ies) and power. Any changes in coordinates, heights, and frequencies or use of greater power, except those frequencies specified in the Colo Void Clause Coalition; Antenna System Co-Location; Voluntary Best Practices, effective 21 Nov 2007, will void this determination. Any future construction or alteration, including increase to heights, power, or the addition of other transmitters, requires separate notice to the FAA. This determination includes all previously filed frequencies and power for this structure.

If construction or alteration is dismantled or destroyed, you must submit notice to the FAA within 5 days after the construction or alteration is dismantled or destroyed.

This determination does include temporary construction equipment such as cranes, derricks, etc., which may be used during actual construction of the structure. However, this equipment shall not exceed the overall heights as indicated above. Equipment which has a height greater than the studied structure requires separate notice to the FAA.

This determination concerns the effect of this structure on the safe and efficient use of navigable airspace by aircraft and does not relieve the sponsor of compliance responsibilities relating to any law, ordinance, or regulation of any Federal, State, or local government body.

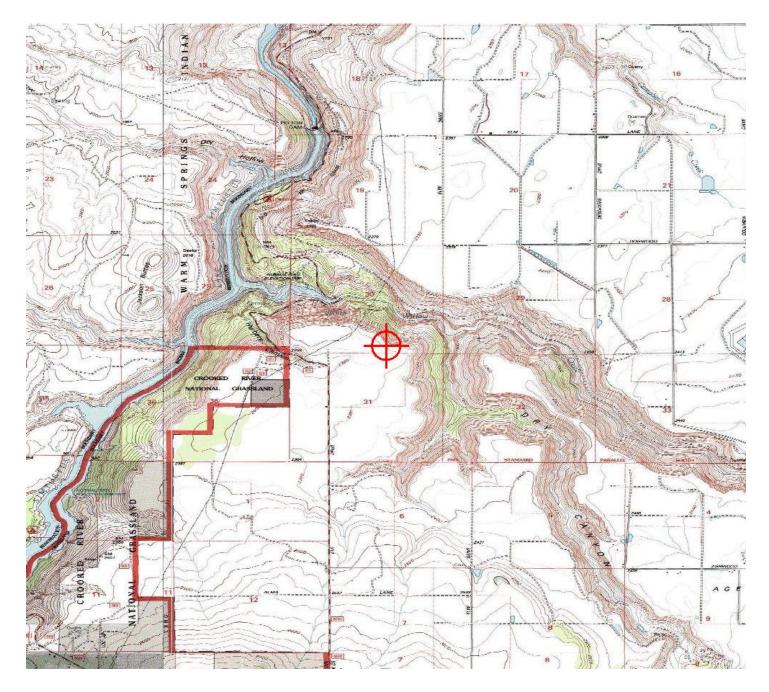
If we can be of further assistance, please contact our office at (206) 231-2990, or paul.holmquist@faa.gov. On any future correspondence concerning this matter, please refer to Aeronautical Study Number 2019-ANM-5571-OE.

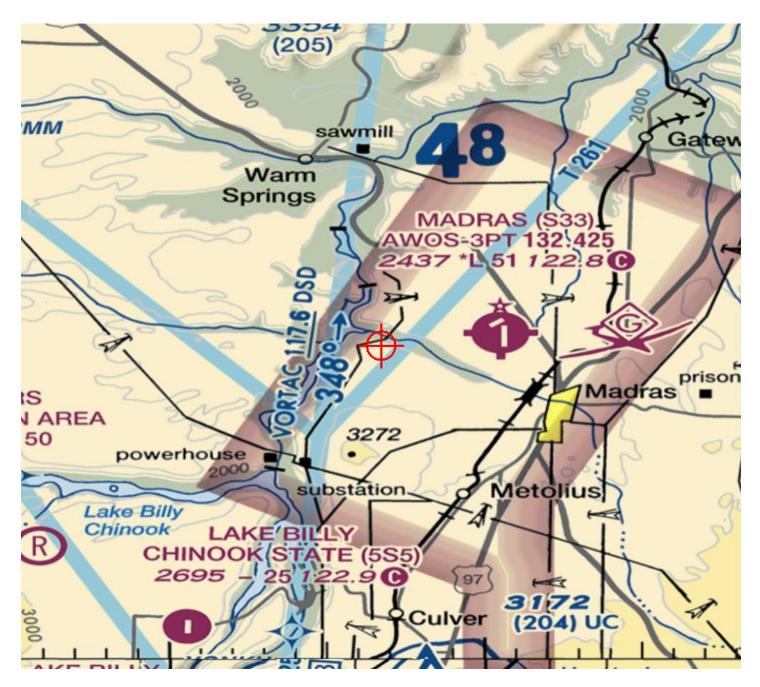
Signature Control No: 414286829-416175016 Paul Holmquist Specialist

(DNE)

Attachment(s) Map(s)

TOPO Map for ASN 2019-ANM-5571-OE







Issued Date: 09/03/2019

Pete Parkinson Ecoplexus 101 Second Street Suite 1250 San Francisco, CA 94105

**** DETERMINATION OF NO HAZARD TO AIR NAVIGATION ****

The Federal Aviation Administration has conducted an aeronautical study under the provisions of 49 U.S.C., Section 44718 and if applicable Title 14 of the Code of Federal Regulations, part 77, concerning:

Structure:	Solar Panel Madras PV1
Location:	Madras, OR
Latitude:	44-39-51.37N NAD 83
Longitude:	121-13-09.57W
Heights:	2379 feet site elevation (SE)
-	40 feet above ground level (AGL)
	2419 feet above mean sea level (AMSL)

This aeronautical study revealed that the structure does not exceed obstruction standards and would not be a hazard to air navigation provided the following condition(s), if any, is(are) met:

It is required that FAA Form 7460-2, Notice of Actual Construction or Alteration, be e-filed any time the project is abandoned or:

_____ At least 10 days prior to start of construction (7460-2, Part 1) __X__ Within 5 days after the construction reaches its greatest height (7460-2, Part 2)

Based on this evaluation, marking and lighting are not necessary for aviation safety. However, if marking/ lighting are accomplished on a voluntary basis, we recommend it be installed in accordance with FAA Advisory circular 70/7460-1 L Change 2.

- (a) the construction is started (not necessarily completed) and FAA Form 7460-2, Notice of Actual Construction or Alteration, is received by this office.
- (b) extended, revised, or terminated by the issuing office.
- (c) the construction is subject to the licensing authority of the Federal Communications Commission (FCC) and an application for a construction permit has been filed, as required by the FCC, within 6 months of the date of this determination. In such case, the determination expires on the date prescribed by the FCC for completion of construction, or the date the FCC denies the application.

This determination is based, in part, on the foregoing description which includes specific coordinates, heights, frequency(ies) and power. Any changes in coordinates, heights, and frequencies or use of greater power, except those frequencies specified in the Colo Void Clause Coalition; Antenna System Co-Location; Voluntary Best Practices, effective 21 Nov 2007, will void this determination. Any future construction or alteration, including increase to heights, power, or the addition of other transmitters, requires separate notice to the FAA. This determination includes all previously filed frequencies and power for this structure.

If construction or alteration is dismantled or destroyed, you must submit notice to the FAA within 5 days after the construction or alteration is dismantled or destroyed.

This determination does include temporary construction equipment such as cranes, derricks, etc., which may be used during actual construction of the structure. However, this equipment shall not exceed the overall heights as indicated above. Equipment which has a height greater than the studied structure requires separate notice to the FAA.

This determination concerns the effect of this structure on the safe and efficient use of navigable airspace by aircraft and does not relieve the sponsor of compliance responsibilities relating to any law, ordinance, or regulation of any Federal, State, or local government body.

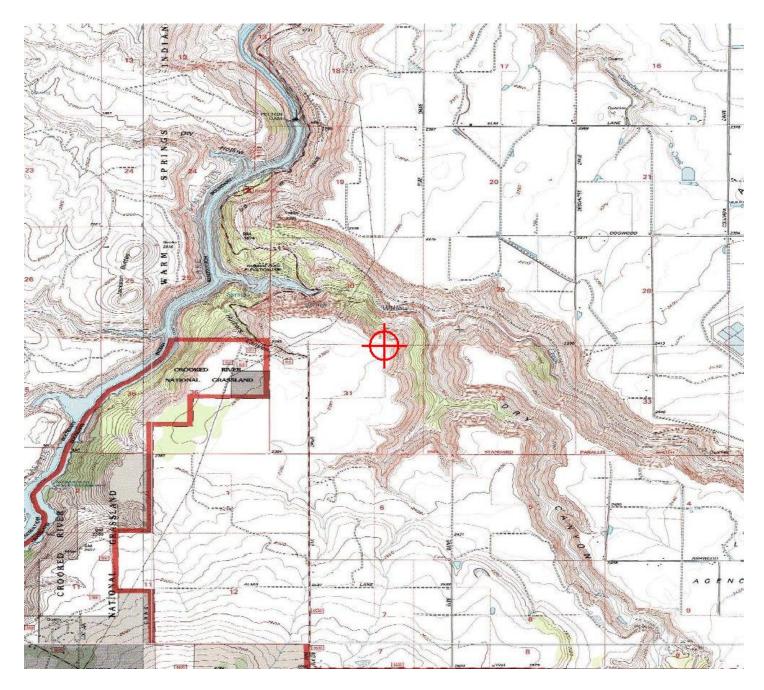
If we can be of further assistance, please contact our office at (206) 231-2990, or paul.holmquist@faa.gov. On any future correspondence concerning this matter, please refer to Aeronautical Study Number 2019-ANM-5572-OE.

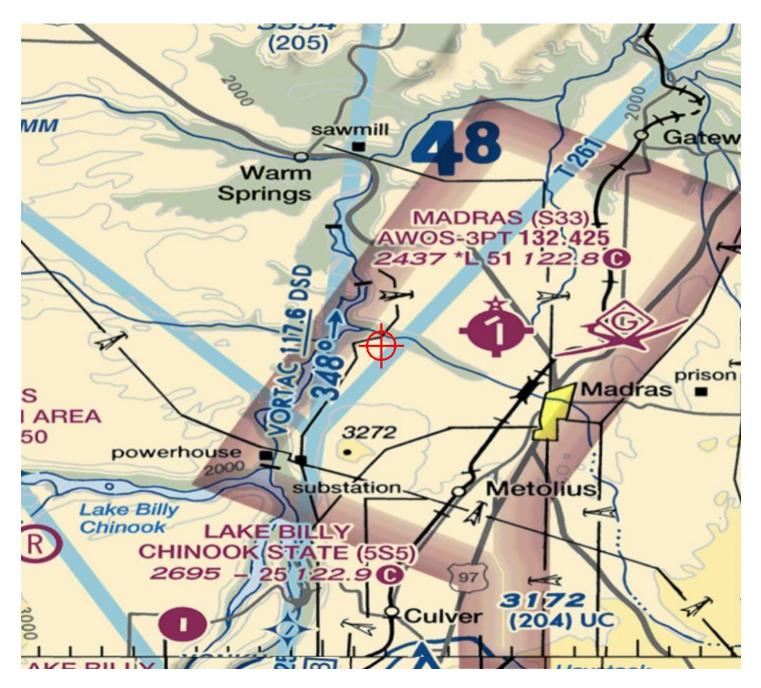
Signature Control No: 414286832-416175017 Paul Holmquist Specialist

(DNE)

Attachment(s) Map(s)

TOPO Map for ASN 2019-ANM-5572-OE







Issued Date: 09/03/2019

Pete Parkinson Ecoplexus 101 Second Street Suite 1250 San Francisco, CA 94105

**** DETERMINATION OF NO HAZARD TO AIR NAVIGATION ****

The Federal Aviation Administration has conducted an aeronautical study under the provisions of 49 U.S.C., Section 44718 and if applicable Title 14 of the Code of Federal Regulations, part 77, concerning:

Structure:	Solar Panel Madras PV1
Location:	Madras, OR
Latitude:	44-39-34.65N NAD 83
Longitude:	121-13-05.29W
Heights:	2371 feet site elevation (SE)
-	40 feet above ground level (AGL)
	2411 feet above mean sea level (AMSL)

This aeronautical study revealed that the structure does not exceed obstruction standards and would not be a hazard to air navigation provided the following condition(s), if any, is(are) met:

It is required that FAA Form 7460-2, Notice of Actual Construction or Alteration, be e-filed any time the project is abandoned or:

_____ At least 10 days prior to start of construction (7460-2, Part 1) __X__ Within 5 days after the construction reaches its greatest height (7460-2, Part 2)

Based on this evaluation, marking and lighting are not necessary for aviation safety. However, if marking/ lighting are accomplished on a voluntary basis, we recommend it be installed in accordance with FAA Advisory circular 70/7460-1 L Change 2.

- (a) the construction is started (not necessarily completed) and FAA Form 7460-2, Notice of Actual Construction or Alteration, is received by this office.
- (b) extended, revised, or terminated by the issuing office.
- (c) the construction is subject to the licensing authority of the Federal Communications Commission (FCC) and an application for a construction permit has been filed, as required by the FCC, within 6 months of the date of this determination. In such case, the determination expires on the date prescribed by the FCC for completion of construction, or the date the FCC denies the application.

This determination is based, in part, on the foregoing description which includes specific coordinates, heights, frequency(ies) and power. Any changes in coordinates, heights, and frequencies or use of greater power, except those frequencies specified in the Colo Void Clause Coalition; Antenna System Co-Location; Voluntary Best Practices, effective 21 Nov 2007, will void this determination. Any future construction or alteration, including increase to heights, power, or the addition of other transmitters, requires separate notice to the FAA. This determination includes all previously filed frequencies and power for this structure.

If construction or alteration is dismantled or destroyed, you must submit notice to the FAA within 5 days after the construction or alteration is dismantled or destroyed.

This determination does include temporary construction equipment such as cranes, derricks, etc., which may be used during actual construction of the structure. However, this equipment shall not exceed the overall heights as indicated above. Equipment which has a height greater than the studied structure requires separate notice to the FAA.

This determination concerns the effect of this structure on the safe and efficient use of navigable airspace by aircraft and does not relieve the sponsor of compliance responsibilities relating to any law, ordinance, or regulation of any Federal, State, or local government body.

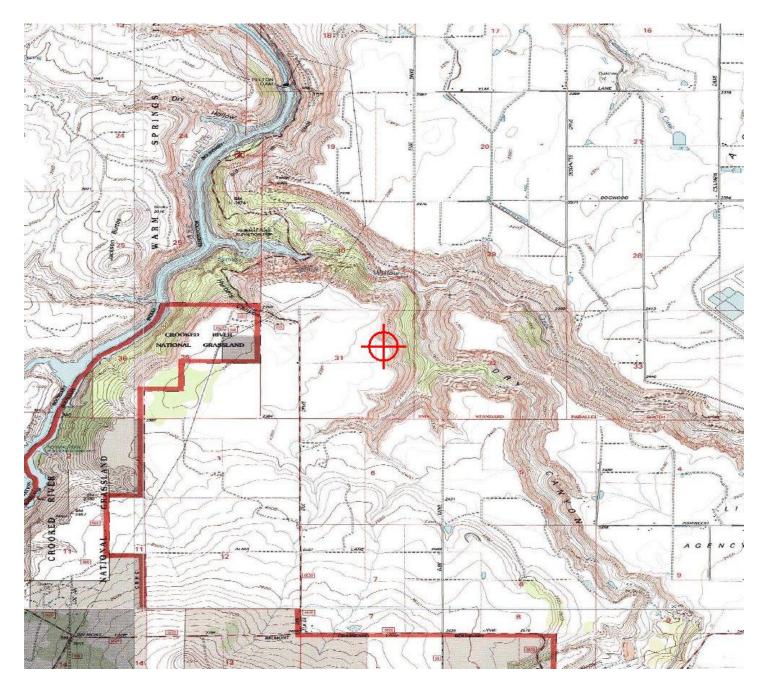
If we can be of further assistance, please contact our office at (206) 231-2990, or paul.holmquist@faa.gov. On any future correspondence concerning this matter, please refer to Aeronautical Study Number 2019-ANM-5573-OE.

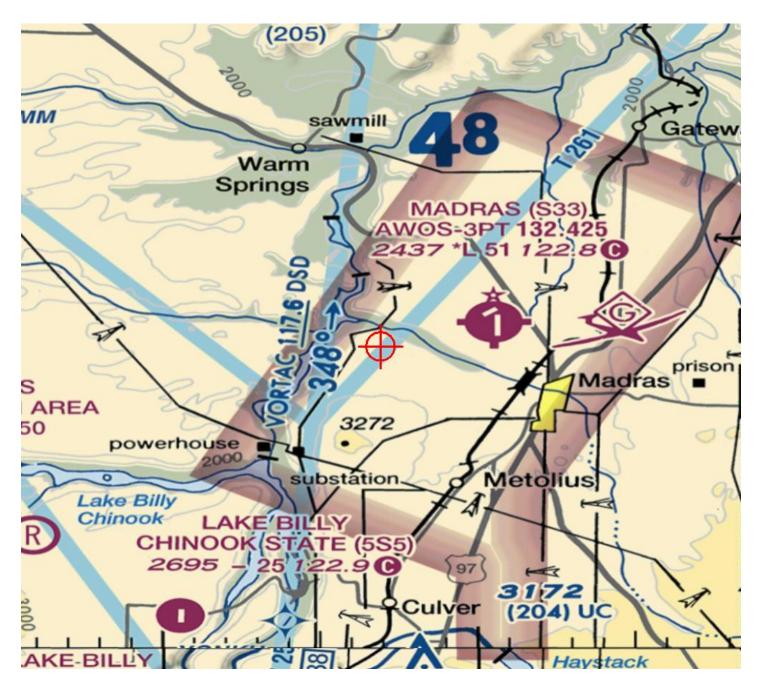
Signature Control No: 414286833-416175019 Paul Holmquist Specialist

(DNE)

Attachment(s) Map(s)

TOPO Map for ASN 2019-ANM-5573-OE







Issued Date: 09/03/2019

Pete Parkinson Ecoplexus 101 Second Street Suite 1250 San Francisco, CA 94105

**** DETERMINATION OF NO HAZARD TO AIR NAVIGATION ****

The Federal Aviation Administration has conducted an aeronautical study under the provisions of 49 U.S.C., Section 44718 and if applicable Title 14 of the Code of Federal Regulations, part 77, concerning:

Structure:	Solar Panel Madras PV1
Location:	Madras, OR
Latitude:	44-39-27.91N NAD 83
Longitude:	121-13-07.39W
Heights:	2368 feet site elevation (SE)
-	40 feet above ground level (AGL)
	2408 feet above mean sea level (AMSL)

This aeronautical study revealed that the structure does not exceed obstruction standards and would not be a hazard to air navigation provided the following condition(s), if any, is(are) met:

It is required that FAA Form 7460-2, Notice of Actual Construction or Alteration, be e-filed any time the project is abandoned or:

_____ At least 10 days prior to start of construction (7460-2, Part 1) __X__ Within 5 days after the construction reaches its greatest height (7460-2, Part 2)

Based on this evaluation, marking and lighting are not necessary for aviation safety. However, if marking/ lighting are accomplished on a voluntary basis, we recommend it be installed in accordance with FAA Advisory circular 70/7460-1 L Change 2.

- (a) the construction is started (not necessarily completed) and FAA Form 7460-2, Notice of Actual Construction or Alteration, is received by this office.
- (b) extended, revised, or terminated by the issuing office.
- (c) the construction is subject to the licensing authority of the Federal Communications Commission (FCC) and an application for a construction permit has been filed, as required by the FCC, within 6 months of the date of this determination. In such case, the determination expires on the date prescribed by the FCC for completion of construction, or the date the FCC denies the application.

This determination is based, in part, on the foregoing description which includes specific coordinates, heights, frequency(ies) and power. Any changes in coordinates, heights, and frequencies or use of greater power, except those frequencies specified in the Colo Void Clause Coalition; Antenna System Co-Location; Voluntary Best Practices, effective 21 Nov 2007, will void this determination. Any future construction or alteration, including increase to heights, power, or the addition of other transmitters, requires separate notice to the FAA. This determination includes all previously filed frequencies and power for this structure.

If construction or alteration is dismantled or destroyed, you must submit notice to the FAA within 5 days after the construction or alteration is dismantled or destroyed.

This determination does include temporary construction equipment such as cranes, derricks, etc., which may be used during actual construction of the structure. However, this equipment shall not exceed the overall heights as indicated above. Equipment which has a height greater than the studied structure requires separate notice to the FAA.

This determination concerns the effect of this structure on the safe and efficient use of navigable airspace by aircraft and does not relieve the sponsor of compliance responsibilities relating to any law, ordinance, or regulation of any Federal, State, or local government body.

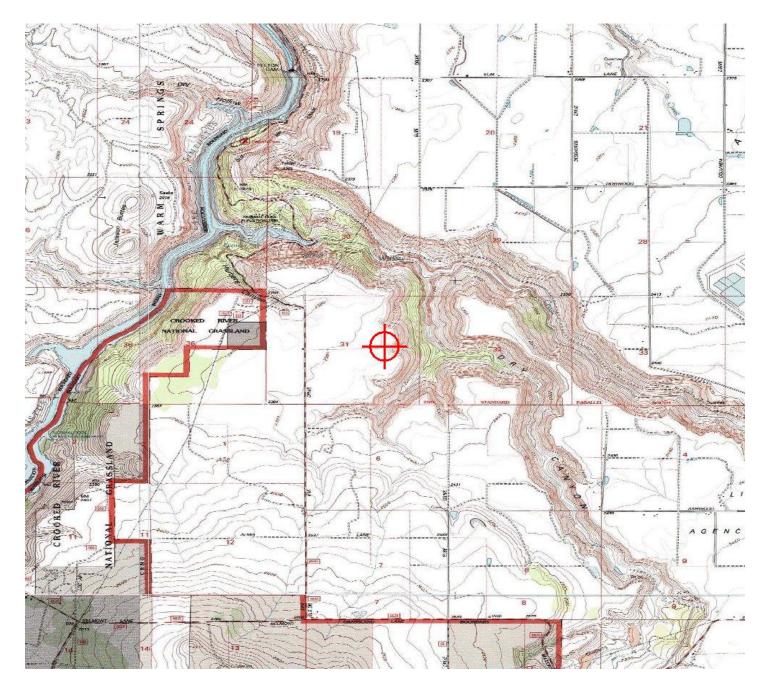
If we can be of further assistance, please contact our office at (206) 231-2990, or paul.holmquist@faa.gov. On any future correspondence concerning this matter, please refer to Aeronautical Study Number 2019-ANM-5574-OE.

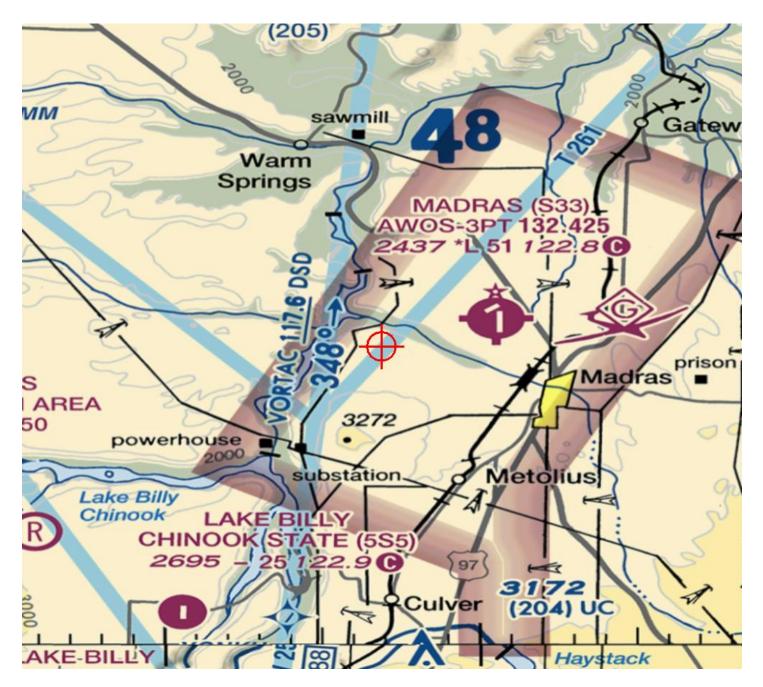
Signature Control No: 414286834-416175020 Paul Holmquist Specialist

(DNE)

Attachment(s) Map(s)

TOPO Map for ASN 2019-ANM-5574-OE







Issued Date: 09/03/2019

Pete Parkinson Ecoplexus 101 Second Street Suite 1250 San Francisco, CA 94105

**** DETERMINATION OF NO HAZARD TO AIR NAVIGATION ****

The Federal Aviation Administration has conducted an aeronautical study under the provisions of 49 U.S.C., Section 44718 and if applicable Title 14 of the Code of Federal Regulations, part 77, concerning:

Structure:	Solar Panel Madras PV1
Location:	Madras, OR
Latitude:	44-39-26.45N NAD 83
Longitude:	121-14-03.73W
Heights:	2387 feet site elevation (SE)
-	40 feet above ground level (AGL)
	2427 feet above mean sea level (AMSL)

This aeronautical study revealed that the structure does not exceed obstruction standards and would not be a hazard to air navigation provided the following condition(s), if any, is(are) met:

It is required that FAA Form 7460-2, Notice of Actual Construction or Alteration, be e-filed any time the project is abandoned or:

_____ At least 10 days prior to start of construction (7460-2, Part 1) __X__ Within 5 days after the construction reaches its greatest height (7460-2, Part 2)

Based on this evaluation, marking and lighting are not necessary for aviation safety. However, if marking/ lighting are accomplished on a voluntary basis, we recommend it be installed in accordance with FAA Advisory circular 70/7460-1 L Change 2.

- (a) the construction is started (not necessarily completed) and FAA Form 7460-2, Notice of Actual Construction or Alteration, is received by this office.
- (b) extended, revised, or terminated by the issuing office.
- (c) the construction is subject to the licensing authority of the Federal Communications Commission (FCC) and an application for a construction permit has been filed, as required by the FCC, within 6 months of the date of this determination. In such case, the determination expires on the date prescribed by the FCC for completion of construction, or the date the FCC denies the application.

This determination is based, in part, on the foregoing description which includes specific coordinates, heights, frequency(ies) and power. Any changes in coordinates, heights, and frequencies or use of greater power, except those frequencies specified in the Colo Void Clause Coalition; Antenna System Co-Location; Voluntary Best Practices, effective 21 Nov 2007, will void this determination. Any future construction or alteration, including increase to heights, power, or the addition of other transmitters, requires separate notice to the FAA. This determination includes all previously filed frequencies and power for this structure.

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This determination concerns the effect of this structure on the safe and efficient use of navigable airspace by aircraft and does not relieve the sponsor of compliance responsibilities relating to any law, ordinance, or regulation of any Federal, State, or local government body.

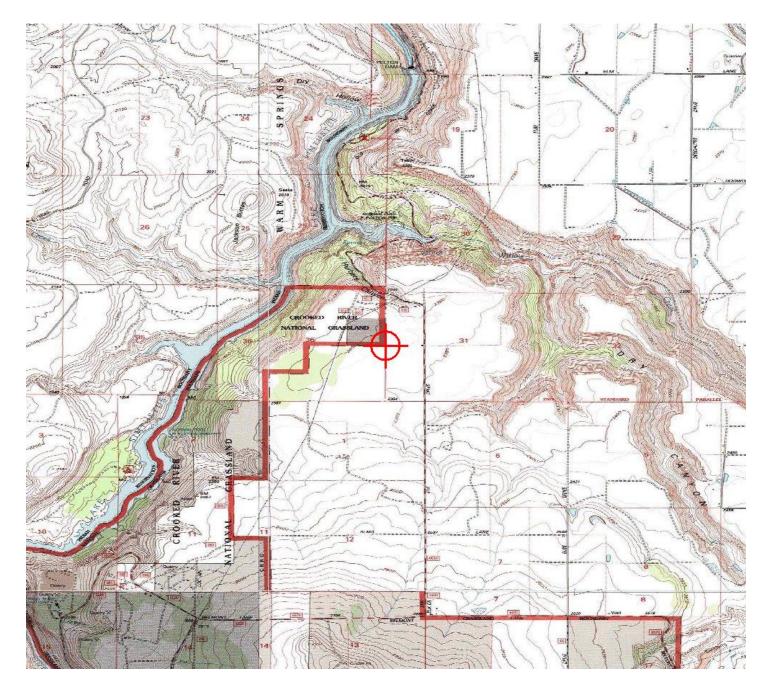
If we can be of further assistance, please contact our office at (206) 231-2990, or paul.holmquist@faa.gov. On any future correspondence concerning this matter, please refer to Aeronautical Study Number 2019-ANM-5575-OE.

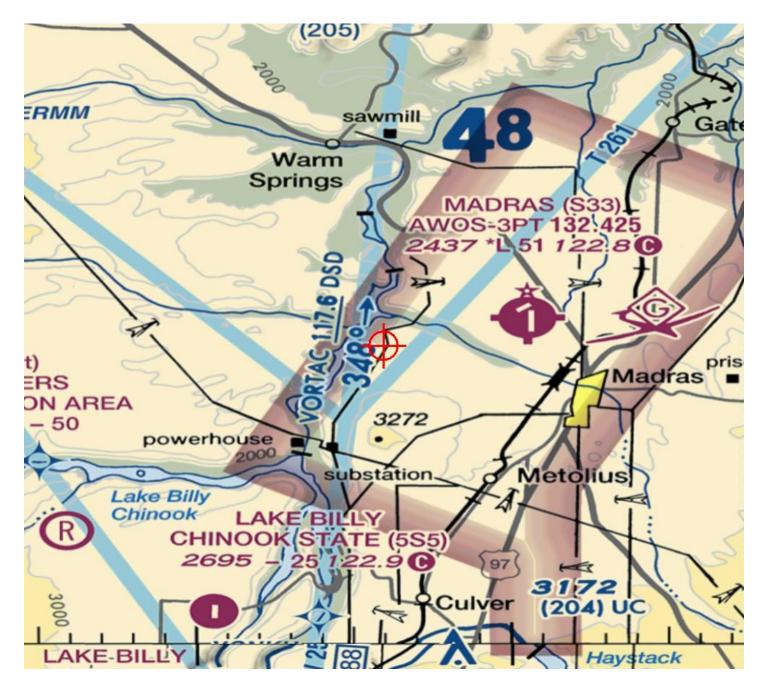
Signature Control No: 414286835-416175014 Paul Holmquist Specialist

(DNE)

Attachment(s) Map(s)

TOPO Map for ASN 2019-ANM-5575-OE





Attachment E-2 Basic Air Contaminant Discharge Permit Application



Application for Basic Air Contaminant Discharge Permit Concrete Manufacturing

FOR DEQ USE ONLY		
Permit Number:	Regional Office:	New
Application No:	Check number:	Renewal
Date Received :	Amount (\$):	Approved (date):
		Staff initials:

1. Company information:

Legal Name:	Other company name (if different than legal name):
Mailing Address:	Site Address (if different than mailing address):
City, State, Zip Code:	City, County, Zip Code:
Standard Industrial Classification (SIC)	Number of employees:

2. Plant Information:

- a. Date the facility was manufactured?
- b. Date the facility began or will begin operations in Oregon?
- c. Initial location:
- d. Describe in *detail* the process, beginning with when material is received, through the production process, concluding with how the materials are shipped off site.
- e. List the projected maximum annual cubic yards of concrete produced:
- f. Are there any boilers or other fuel burning equipment used in the process? If yes, specify the type and maximum amount of fuel to be used in any one year.

		yd ³ /yr
Yes:	No:	



State of Oregon Department of Environmental Quality

3. Has the facility received any air quality/nuisance complaints within the last calendar year? Yes (explain): No:

- 4. The attached Land Use Compatibility Statement must be submitted with applications for new permits (if the facility is portable no LUCS is required).
- 5. Signature

I hereby certify that the information contained in this application are true and correct to the best of my knowledge.

Name of official (Printed or Typed):	Title of official and phone number:
runie of official (Finited of Typed).	The of official and phone number.
Signature of official:	Date:
C. S. Piscitello	
(\cdot, \cdot) . $Fuculto$	

Fee Information (Make checks payable to DEQ)

OAR 340-216-8020	New Permits	Permit Renewals
Initial permit application fee (Table 2, Part 1)	\$144.00	\$0.00
Annual fee (Table 2, Part 2)	\$432.00	\$0.00
TOTAL FEES	\$576.00	\$0.00

Submit two copies of the completed application to:

New Permits (include fees):	Permit Renewals (no fees):
Oregon Department of Environmental Quality Financial Services - Revenue Section 700 NE Multnomah St., Suite 600 Portland, OR 97232-4100	Oregon Department of Environmental Quality Regional office listed on the cover page of the permit



Environmental Quality

State of Oregon **Department of 1. Company Information:**

Legal Name:	Other company name (if different than legal name):

2. Site Contact Person: (A person who deals with DEQ staff about equipment problems.)

Name:	Telephone number:
Title:	Email address:

3. Facility Contact Person: (*A person involved with all environmental issues at the facility although they may be housed at a different site.*)

Name:	Telephone number:
Title:	Email address:

4. Mailing Contact Person: (A person for which the company would like all agency communications *directed.*)

Name:	Telephone number:
Title:	Email address:

5. Invoice Contact Person: (Valid contact information to which invoices and communications related to resolving invoice questions can be directed.)

Name:	Telephone number:
Title:	Email address:

Attachment E-3 Correspondence from Oregon Department of Environmental Quality Verifying Receipt of Basic Air Contaminant Discharge Permit Application

To be submitted with final, complete application.