

ARIZONA SOLAR ONE LLC ORIGINAL



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Solana Generating Facility

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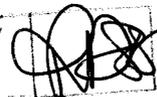
Docket Control
Arizona Corporation Commission
1200 West Washington
Phoenix, Arizona 85007

AZ CORP COMMISSION
DOCKET CONTROL

Compliance Section
Arizona Corporation Commission
1200 West Washington
Phoenix, Arizona 85007

Arizona Corporation Commission
DOCKETED

DEC 1 2011

DOCKETED BY 

Re: Docket No. L00000GG-08-0407-00139, Case No. 139, Decision No. 70638
Docket No. L00000GG-08-0408-00140, Case No. 140, Decision No. 70639

This letter is to inform you of the compliance actions taken for the Solana Generating Station Facility CEC (Decision No. 70638) Condition No. 20, as well as the Solana Generating Station Transmission line CEC (Decision No.70639) Condition No. 17 which state:

"The Applicant, or its assignee(s), shall submit a self-certification letter annually, identifying progress made with respect to each condition contained in the Certificate, including which conditions have been met. . . copies of each letter along with the corresponding documentation shall be submitted to the Arizona Attorney General and Department of Commerce Energy Office. . ."

Abengoa Solar Inc. has completed the compliance activities, evidence of which may be found in the attached documentation.

Sincerely,


Kate Maracas
Statutory Agent
Arizona Solar One LLC

ARIZONA SOLAR ONE LLC
4505 E. Chandler Blvd., Suite 120
Phoenix, AZ 85048
480.705.0028 (T) 480.705.3327 (F)

ARIZONA SOLAR ONE LLC

Solana Generating Facility

December 1, 2011

Leisa Brug
Governor's Office of Energy Policy
1700 West Washington, Suite 220
Phoenix, Arizona 85007

Tom Horne
Arizona Attorney General
1275 West Washington
Phoenix, AZ 85007

Re: Solana Generating Station Project Certificate of Compatibility, Self Certification Letter

Dear Ms. Burg and Mr. Horne,

On December 11, 2008, the Arizona Corporation Commission (ACC) granted a Certificate of Environmental Compatibility (CEC) for the Solana Generating Station. The Solana Generating Station as approved is a 280 megawatt (MW) gross output (250 MW nominal output) concentrating solar power (CSP) electric generating plant located on an approximately 3,100-acre site situated in Gila Bend, Arizona at the northwest corner of Interstate 8 and Painted Rock Dam Road.

As a provision of the CEC we would like to provide you with the following:

- A copy of Arizona Solar One LLC's Self-Certification Letter in regards to status of the Solana Generating Station Project, to be docketed to the Arizona Corporation Commission on December 1, 2011.

Sincerely,



Kate Maracas
Statutory Agent
Arizona Solar One LLC

ARIZONA SOLAR ONE LLC
4505 E. Chandler Blvd., Suite 120, Phoenix, AZ 85048
480.705.0028 (T) 480.705.3227 (F)

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Tom Horne
Arizona Attorney General
1275 W. Washington St.
Phoenix, AZ 85007

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Tom Horne
Arizona Attorney General
1275 W. Washington
Phoenix, AZ 85007

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Street, Apt. No. 1700 W. Washington, Suite 220
or PO Box No. Phoenix, AZ 85007
City, State, ZIP+4

PS Form 3800, August 2006

See Reverse for Instructions

Leisa Brug
Governors Office of
Energy Policy
1700 W. Washington St.
Suite 220
Phoenix, AZ 85007

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Leisa Brug
Governor's Office of Energy Policy
1700 W. Washington St., Suite 220
Phoenix, AZ 85007

1 **BEFORE THE ARIZONA POWER PLANT AND**
2 **TRANSMISSION LINE SITING COMMITTEE**

3 IN THE MATTER OF THE APPLICATION)
4 OF ARIZONA SOLAR ONE, LLC., IN) Docket No. L-00000GG-08-0407-00139
5 CONFORMANCE WITH THE)
6 REQUIREMENTS OF ARIZONA REVISED)
7 STATUTES §§ 40-360, *et seq.*, FOR A) Case No. 139
8 CERTIFICATE OF ENVIRONMENTAL)
9 COMPATIBILITY AUTHORIZING THE)
10 CONSTRUCTION OF THE SOLANA)
11 GENERATING STATION, LOCATED IN)
12 SECTION 9, TOWNSHIP 6 SOUTH, RANGE)
13 7 WEST, MARICOPA COUNTY, ARIZONA.)
14 _____)

11 **CERTIFICATE OF ENVIRONMENTAL COMPATIBILITY**

12 Pursuant to notice given as provided by law, the Arizona Power Plant and Transmission
13 Line Siting Committee (the "Committee") held public hearings on September 22 and 23, 2008 and
14 October 14, 2008, in conformance with the requirements of Arizona Revised Statutes ("A.R.S.")
15 §§ 40-360, *et seq.*, for the purpose of receiving evidence and deliberating on the Application of
16 Arizona Solar One, LLC. ("Applicant") for a Certificate of Environmental Compatibility
17 ("Certificate") in the above-captioned case (the "Project").

18 The following members and designees of members of the Committee were present at one
19 or more of the hearings for the evidentiary presentations and/or for the deliberations:

20 John Foreman	Chairman, Designee for Arizona Attorney General 21 Terry Goddard
22 Paul Rasmussen	Designee for Director, Arizona Department of 23 Environmental Quality
24 Gregg Houtz	Designee for Director, Arizona Department of Water Resources
25 Jack Haenichen	Designee for Director, Energy Office, Arizona Department 26 of Commerce, attended September 22 and 23, 2008

1 Jim Arwood Director, Energy Office, Arizona Department of
2 Commerce, attended October 14, 2008
3 David Eberhart Designee for Chairman, Arizona Corporation
4 Commission
5 Michael Biesemeyer Appointed Member, attended September 22 and 23, 2008
6 Jeff McGuire Appointed Member
7 Patricia Noland Appointed Member
8 Michael Palmer Appointed Member
9 Michael Whalen Appointed Member
10 Barry Wong Appointed Member

11 Applicant was represented by Thomas H. Campbell and Albert H. Acken of Lewis and
12 Roca LLP. Arizona Corporation Commission ("ACC" or "Commission") Staff, represented by
13 Charles H. Hains and Robin R. Mitchell, the Sierra Club-Grand Canyon Chapter, represented by
14 Timothy M. Hogan, and the Paloma Irrigation and Drainage District ("PIDD"), represented by Jay
15 Moyes and Jeffrey Zimmerman, were granted intervention pursuant to A.R.S. § 40-360.05.

16 At the conclusion of the hearings, the Committee, having received the Application, the
17 appearances of the parties, the evidence, testimony, and exhibits presented at the hearings, and
18 being advised of the legal requirements of A.R.S. §§ 40-360 to 40-360.13, upon motion duly
19 made and seconded, voted 10 to 0 to grant Applicant this Certificate of Environmental
20 Compatibility (Line Siting Case No. 139) for the Project.

21 The Project as approved consists of a 280 Megawatt ("MW") gross output (250 MW
22 nominal output) concentrating solar power ("CSP") electric generating plant located on an
23 approximately 3000-acre site west of the Town of Gila Bend, in Maricopa County, Arizona. A
24 general location map of the Project is set forth in **Exhibit A**.

1 **CONDITIONS**

2 This Certificate is granted upon the following conditions:

- 3 1. The Applicant, or its assignee(s), shall obtain all required approvals and permits
4 necessary to construct the Project.

5 **Status-** The Applicant has obtained the necessary permits to begin construction of the
6 facility.

- 7 2. The Applicant, or its assignee(s), shall comply with all existing applicable ordinances,
8 master plans and regulations of the State of Arizona, the County of Maricopa, the
9 United States, and any other governmental entities having jurisdiction, including but
10 not limited to the following:

- 11 (a) all applicable land use regulations;

12 **Status-** On December 17, 2008, Arizona Solar One, LLC received approval by
13 the County of Maricopa to allow for the Industrial Use with a Comprehensive
14 Plan Amendment for the proposed Solana Site.

15 On July 7, 2010, Arizona Solar One, LLC received a Special Use Permit (SUP)
16 approved by the Maricopa County Board of Supervisors.

- 17 (b) all applicable zoning stipulations and conditions, including but not limited to
18 landscaping and dust control requirements;

19 **Status-** These requirements have been articulated within the SUP, and the
20 Applicant shall comply with all such stipulations. As well, on September 29,
21 2010, Maricopa County Air Quality Department has issued a Dust Control
22 Permit for the Solana Site.

- 23 (c) all applicable water use, discharge and/or disposal requirements of the Arizona
24 Department of Water Resources and the Arizona Department of Environmental
25 Quality;

26

1 **Status-** These requirements will be addressed in the Aquifer Protection Permit
2 for Arizona Solar One Solar, LLC.

3 (d) all applicable noise control standards;

4 **Status-** The Applicant shall comply with all Maricopa County ordinances.

5 (e) all applicable regulations and permits governing storage and handling of
6 chemicals and petroleum products;

7 **Status-** The Applicant shall comply with all Arizona Department of
8 Environmental Quality and EPA requirements for material handling.

9 (f) all other applicable federal and state regulations and standards.

10 **Status-** The U.S. Department of Energy (DOE) conducted an Environmental
11 Assessment (EA) that analyzed the potential environmental impacts associated
12 with the Solana Generating Plant. The DOE issued a Finding of No Significant
13 Impact on May 6, 2010.

14 On June 17, 2010 Arizona Solar One, LLC was issued an Air Quality Permit by
15 the Maricopa County Air Quality Department.

16 3. This authorization to construct the Project will expire ten (10) years from the date the
17 Certificate is approved by the Commission unless the Project is completed and capable
18 of operation within the ten-year time frame. If the Project is not complete and capable
19 of operation within the ten-year time frame, the Applicant or its assignee(s) may
20 request that the Commission extend this time limitation.

21 4. In the event that the Project requires an extension of the term of this Certificate prior to
22 completion of construction, Applicant, or its assignee(s), shall use commercially
23 reasonable means to directly notify all landowners and residents within one mile of the
24 Project site for which the extension is sought. Such landowners and residents shall be
25 notified of the time and place of the proceeding in which the Commission shall
26 consider such request for extension.

1 **Status**-The Applicant shall comply with the above notification requirements.

- 2 5. Applicant, or its assignee(s) and/or its customer, will work in good faith to develop and
3 implement an educational program to teach students about the science of solar electric
4 technology.

5 **Status**- The Applicant is currently collaborating with Arizona State University (ASU)
6 and sits on the Advisory Board of ASU's Professional Science Masters, Solar Energy
7 Engineering and Commercialization program. The Applicant also intends to develop
8 and implement an additional educational outreach programs.

- 9 6. The Applicant, or its assignee(s), will provide to the Commission Staff copies of the
10 Project's executed interconnection agreement with APS, and the technical operating
11 studies that will be performed prior to actual physical interconnection of the Project to
12 the APS transmission system. -LGIA to staff

13 **Status**- The Applicant has finalized the interconnection agreement with APS, and
14 provided copies of the agreement to Staff on November 23, 2010.

- 15 7. Applicant, or its assignee(s), or its affiliate company, or its customer will become a
16 member of the Western Electricity Coordinating Council ("WECC") (or its successor),
17 and will file with the Commission Docket Control a copy of its executed WECC
18 Membership Agreement.

19 **Status**- The Applicant will become a member of WECC at a date when the Solana
20 Gen-Tie is near completion.

- 21 8. Applicant, or its assignee(s) and/or its affiliate company and/or its customer, will
22 participate in good faith in Commission-sponsored workshops and assessments of the
23 solar renewable infrastructure and market.

24 **Status**- The Applicant participates in the ACC Biennial Transmission Assessment
25 process, Arizona's Restoration Energy Design Project, and will continue to participate
26 in Commission-sponsored workshops and events.

1 9. Applicant, or its assignee(s), may utilize groundwater for electrical generation and
2 related uses associated with construction and commercial operation of the Project.
3 Prior to the commencement of commercial operation, Applicant, or its assignee(s) will
4 file with Commission Docket Control a letter confirming that Applicant, or its
5 assignee(s) has secured both an adequate supply of water to produce 280 MW using
6 CSP parabolic trough technology with thermal storage, and a legal right to use the
7 water needed for the purpose of construction and commercial operation of the Project.

8 **Status-** The Applicant has signed an agreement with Paloma Irrigation and Drainage
9 District as evidenced by the “Memorandum of Industrial Development Facilitation
10 Agreement”, recorded with ACC Docket control on November 23, 2010. The
11 agreement allows the project a legal right to use the water needed during construction
12 and operations.

13 10. To the extent applicable, Applicant or its assignee(s), will comply with the notice and
14 salvage requirements of the Arizona Native Plant Law (A.R.S. §§ 3-901, *et seq.*) and
15 will, to the extent feasible, minimize the destruction of native plants during Project
16 construction.

17 **Status-** On August 9, 2010 the Applicant filed a “Notice of Intent to Clear Land” with
18 the Arizona Department of Agriculture (ADA). This notice was approved by the ADA
19 on August 18, 2010.

20 11. During the construction and maintenance of the Project, to the extent applicable, the
21 Applicant, or its assignee(s), will use existing roads for access, and to the extent
22 applicable, taking into the account that the Project Site lies within a cultivated
23 agricultural area, minimize impacts to wildlife and vegetation on the Project Site.

24 **Status-** The Applicant shall comply.

25 12. Pursuant to A.R.S. § 41-844, if any archaeological, paleontological or historical site or
26 object that is at least fifty years old is discovered on state, county or municipal land

1 during Project-related activities, the person in charge shall promptly report the
2 discovery to the Director of the Arizona State Museum, and in consultation with the
3 Director, shall immediately take all reasonable steps to secure and maintain the
4 preservation of the discovery. If human remains and/or funerary objects are
5 encountered on private land during the course of any ground-disturbing activities
6 relating to the development of the subject property, Applicant shall cease work on the
7 affected area of the Project and notify the Director of the Arizona State Museum
8 pursuant to A.R.S. § 41-865.

9 **Status-** The Applicant shall comply.

10 13. Within 120 days of the Commission decision granting this Certificate, Applicant, or its
11 assignee(s), will erect and maintain at the site a sign of not less than 4 feet by 8 feet
12 dimensions, advising:

- 13 (a) That the site has been approved for the construction of a 280 MW generating
14 facility;
- 15 (b) The expected date of completion of the Project;
- 16 (c) A phone number for public information regarding the Project;
- 17 (d) The name of the Project;
- 18 (e) The name of the Applicant, or its assignee(s); and
- 19 (f) The website of the Applicant, or its assignee(s).

20 **Status-** On April 6, 2009 Arizona Solar One LLC completed this action. The action
21 was then filed with the offices of Compliance Control and Docket Control on April 10,
22 2009.

23 14. In connection with the construction of the Project, Applicant, or its assignee(s), shall
24 use commercially reasonable efforts, where feasible, to give due consideration to use
25 of qualified Arizona contractors.
26

1 **Status-** The Applicant is currently, and will continue to give such consideration to
2 Arizona contractors in its ongoing vendor selection process.

3 15. The Applicant, or its assignee(s), shall provide copies of this Certificate to the
4 Maricopa County Planning and Development Department, the Arizona State Land
5 Department, the State Historic Preservation Office, and the Arizona Game and Fish
6 Department.

7 **Status-** Arizona Solar One completed this action on November 13, 2009. This action
8 was then filed with the offices of Compliance Control and Docket Control on
9 November 19, 2009.

10 16. Within 120 days after the approval of this Certificate by the Commission, Applicant, or
11 its assignee(s), will provide known homebuilders and developers within one mile of
12 the Project (i) a copy of this Certificate, (ii) a map showing the location of the Project,
13 (iii) a pictorial depiction of the type of power plant being constructed, and (iv) a
14 written request that the developers and homebuilders include this information in the
15 developers' and homebuilders' homeowners' disclosure statements.

16 **Status-**Arizona Solar one completed this action in conjunction with item thirteen (13),
17 on April 6, 2009, providing the two know homebuilders and developers in the area
18 with the required attachments. This action was then filed with the offices of
19 Compliance control and Docket control on April 10, 2009.

20 17. The Applicant, or its assignee(s), shall file with Commission Docket Control,
21 confirmation of the completion of system upgrades required under the interconnection
22 agreement at least thirty days before commercial operation of the plant and associated
23 transmission lines.

24 **Status-** The Applicant shall comply.

25 18. The Applicant will comply with all applicable Western Electricity Coordinating
26 Council/North American Electric Reliability Corporation standards, without the

1 implementation of an automated Remedial Action Scheme to mitigate N-1
2 contingencies other than the loss of the Gen-Tie line.

3 **Status-** The Applicant shall comply.

4 19. The Applicant, or its assignee(s), shall file with Commission Docket Control the final
5 APS System Impact Study, to include the Short Circuit Study, within 10 days of
6 receipt by the Applicant or its assignee(s).

7 **Status-** This Action was completed by Arizona Solar One on July 2, 2009 and docket
8 with the offices of Compliance Control and Docket Control on July 2, 2009.

9 20. The Applicant, or its assignee(s), shall submit a self-certification letter annually,
10 identifying progress made with respect to each condition contained in the Certificate,
11 including which conditions have been met. Each letter shall be submitted to the
12 Commission Docket Control on December 1, beginning in 2009. Attached to each
13 certification letter shall be documentation explaining how compliance with each
14 condition was achieved. Copies of each letter along with the corresponding
15 documentation shall be submitted to the Arizona Attorney General and Department of
16 Commerce Energy Office. The requirement for the self-certification shall expire on
17 the date the Project is placed into operation.

18 **Status-** This Action was completed by the Applicant on November 30, 2011, and
19 submitted to Docket Control, the Arizona Attorney General and Department of
20 Commerce Energy Office.

21 21. The Applicant or its assignees shall submit by March 31, on an annual basis, a report
22 to the Commission Docket Control and the Arizona Department of Water Resources
23 that identifies the amount of water used for this Project in the previous calendar year.

24 **Status-** This action was completed by Arizona Solar One on March 11, 2011 and filed
25 with the offices of Compliance Control and Docket Control on March 28, 2011. As of
26 December 31, 2010 the project had consumed 629.41 acre feet of water.

1
2 **FINDINGS OF FACT AND CONCLUSIONS OF LAW**

3 This Certificate incorporates the following findings of fact and conclusions of law:

- 4
- 5 1. The Solana generating facility will use CSP technology.
 - 6 2. CSP technology uses solar thermal energy as a fuel source to produce power with a
7 conventional steam power plant.
 - 8 3. The major components of the Solana project will be a solar field, a power block, a
9 thermal energy storage system and a heat transfer fluid system.
 - 10 4. The solar field will consist of approximately 2,700 to 3,000 parabolic trough collectors
11 containing approximately 900,000 mirrors.
 - 12 5. The power block will contain two 140 MW steam turbines.
 - 13 6. The thermal energy storage system will use molten salt storage that will allow solar
14 power to be dispatched in accordance with peak electricity demand profiles, and during
15 cloudy or post-sunset periods.
 - 16 7. The heat transfer fluid system moves the thermal energy collected in the solar field to
17 the power block and the thermal energy storage system.
 - 18 8. Solana will be a water cooled plant that will use approximately 3,000 acre feet per year
19 within PIDD, which is substantially less than the approximately 27,500 acre feet per
20 year that has been historically delivered by PIDD and used on this site for agriculture.
 - 21 9. Utility-scale parabolic trough technology has successfully performed since 1984 when
22 the first of nine trough plants were built in California's Mohave Desert.
23
24
25
26

1 10. The addition of Solana's clean energy production will offset the need for fossil-fueled
2 generation that would otherwise produce approximately 475,000 tons per year of
3 greenhouse gas emissions.

4 11. The Project is in the public interest because it aids the state in meeting the need for an
5 adequate, economical and reliable supply of electric power.
6

7 12. In balancing the need for the Project with its effect on the environment and ecology of
8 the state, the conditions placed on the Certificate by the Committee effectively
9 minimize its impact on the environment and ecology of the state.

10 13. The conditions placed on the Certificate by the Committee resolve matters concerning
11 the need for the Project and its impact on the environment and ecology of the state
12 raised during the course of proceedings, and as such, serve as the findings on the
13 matters raised.
14

15 14. In light of these conditions, the balancing in the broad public interest results in favor of
16 granting the Certificate.

17 THE ARIZONA POWER PLANT AND
18 TRANSMISSION LINE SITING COMMITTEE

19
20 _____
21 Hon. John Foreman, Chairman
22
23
24
25
26

1 **BEFORE THE ARIZONA POWER PLANT AND**
2 **TRANSMISSION LINE SITING COMMITTEE**

3 IN THE MATTER OF THE APPLICATION)
4 OF ARIZONA SOLAR ONE, LLC., IN) Docket No. L-00000GG-08-0408-00140
5 CONFORMANCE WITH THE)
6 REQUIREMENTS OF ARIZONA REVISED)
7 STATUTES §§ 40-360, *et seq.*, FOR A) Case No. 140
8 CERTIFICATE OF ENVIRONMENTAL)
9 COMPATIBILITY AUTHORIZING THE)
10 CONSTRUCTION OF THE SOLANA GEN-)
11 TIE, WHICH ORIGINATES AT THE)
12 SOLANA GENERATING STATION,)
13 LOCATED IN SECTION 9, TOWNSHIP 6)
14 SOUTH, RANGE 7 WEST, MARICOPA)
15 COUNTY, AND TERMINATES AT THE)
16 PANDA 230 kV SUBSTATION, LOCATED)
17 IN SECTION 20, TOWNSHIP 5 SOUTH,)
18 RANGE 4 WEST, GILA BEND, ARIZONA.)
19 _____)

14 **CERTIFICATE OF ENVIRONMENTAL COMPATIBILITY**

15 Pursuant to notice given as provided by law, the Arizona Power Plant and Transmission
16 Line Siting Committee (the "Committee") held public hearings on September 22 and 23, 2008,
17 and October 14, 2008, all in conformance with the requirements of Arizona Revised Statutes
18 ("A.R.S.") §§ 40-360, *et seq.*, for the purpose of receiving evidence and deliberating on the
19 Application of Arizona Solar One, LLC. ("Applicant") for a Certificate of Environmental
20 Compatibility ("Certificate") in the above-captioned case (the "Project").

21 The following members and designees of members of the Committee were present at one
22 or more of the hearings for the evidentiary presentations and/or for the deliberations:

23 John Foreman	Chairman, Designee for Arizona Attorney General 24 Terry Goddard
25 Paul Rasmussen	Designee for Director, Arizona Department of 26 Environmental Quality

1 Gregg Houtz Designee for Director, Arizona Department of Water
2 Resources
3 Jack Haenichen Designee for Director, Energy Office, Arizona Department
4 of Commerce, attended September 22 and 23, 2008
5 Jim Arwood Director, Energy Office, Arizona
6 Department of Commerce, attended October 14, 2008
7 David Eberhart Designee for Chairman, Arizona Corporation
8 Commission
9 Michael Biesemeyer Appointed Member, attended September 22 and 23, 2008
10 Jeff McGuire Appointed Member
11 Patricia Noland Appointed Member
12 Michael Palmer Appointed Member
13 Michael Whalen Appointed Member
14 Barry Wong Appointed Member

15 Applicant was represented by Thomas H. Campbell and Albert H. Acken of Lewis and
16 Roca LLP. Arizona Corporation Commission ("ACC" or "Commission") Staff, represented by
17 Charles H. Hains and Robin R. Mitchell, the Sierra Club-Grand Canyon Chapter, represented by
18 Timothy M. Hogan, and the Paloma Irrigation and Drainage District, represented by Jay Moyes
19 and Jeffrey Zimmerman, were granted intervention pursuant to A.R.S. § 40-360.05.

20 At the conclusion of the hearings, the Committee, having received the Application, the
21 appearances of the parties, the evidence, testimony, and exhibits presented at the hearings, and
22 being advised of the legal requirements of A.R.S. §§ 40-360 to 40-360.13, upon motion duly
23 made and seconded, voted 10 to 0 to grant Applicant this Certificate of Environmental
24 Compatibility (Line Siting Case No. 140) for the Project.
25
26

1 The Project as approved consists of approximately 20 miles of 230 kV transmission line
2 and required substation and switchyard facilities and modifications. The single-circuit may be
3 constructed on either single-circuit or double-circuit towers.

4 The Project will originate at a new 230 kV substation within the Solana Generating Station
5 site (Line Siting Case No. 139, proceeding concurrently with this case), Maricopa County,
6 Arizona. From the new substation within the Solana site, the Project will head to the intersection
7 of Painted Rock Dam Road and Powerline Road. The Project will end at the existing APS Panda
8 Substation (Line Siting Case No. 99) located in Section 20, Township 5 South, Range 4 West,
9 Gila Bend, Arizona. The Project may interconnect with (loop in and out of) the APS Gila Bend
10 Substation in addition to terminating at the existing APS Panda 230 kV Substation. From the
11 intersection of Painted Rock Dam Road and Powerline Road, the Project's route will be as
12 follows:

- 13 • North for approximately two miles to the section line / Watermelon Road alignment,
14 within a 500-foot wide corridor. The corridor width includes 250 feet east and 250 feet
15 west of the centerline of the section line / Painted Rock Dam Road / 419th Avenue
16 alignment.
- 17 • At the section line located two miles north of Powerline Road, the route turns east along
18 the section line / Watermelon Road alignment for approximately sixteen miles to the
19 existing APS Panda 230 kV Substation, located in Section 20, Township 5 South, Range 4
20 West, Gila Bend, Arizona. Between 419th Avenue and 355th Avenue the corridor width is
21 2,000 feet; 1,000 feet north and 1,000 feet south of the centerline of section line /
22 Waterline Road alignment. From 355th Avenue to the midsection line between 331st
23 Avenue and 323rd Avenue, the corridor width is 1,000 feet, located south of the centerline
24 of the section line / Watermelon Road alignment. From the midsection line between 331st
25 Avenue and 323rd Avenue to the east side of the existing APS Panda 230 kV Substation,
26

1 the corridor width is 1,250 feet, located south of the centerline of the section line /
2 Watermelon Road alignment.

- 3 • At the point along the section line / Watermelon Road alignment located parallel to the
4 eastern boundary of the existing APS Panda 230 kV Substation, the route extends 1,000
5 feet north of Watermelon Road, within a 500-foot wide corridor east of the existing APS
6 Panda 230 kV Substation.

7 For the authorized, but not required, loop in and out of the Gila Bend Substation, the
8 Project's route also includes the following corridor:

- 9 • A 1,000-foot wide corridor, approximately two miles long, located between Watermelon
10 Road and the APS Gila Bend Substation, primarily along the alignment of the existing
11 APS 230 kV Gila Bend transmission line (Line Siting Case No. 26). The corridor width
12 includes 500 feet east and 500 feet west of the centerline of the existing alignment. Within
13 this corridor, the portion of the circuit extending south from Watermelon Road to the APS
14 Gila Bend Substation and the portion extending north from the APS Gila Bend Substation
15 to Watermelon Road may be placed on two sets of single-circuit towers or on one set of
16 double-circuit towers.

17 A general location map of the Project, described herein, is set forth in **Exhibit A**.

18 CONDITIONS

19 This Certificate is granted upon the following conditions:

- 20 1. The Applicant, or its assignee(s), shall obtain all required approvals and permits
21 necessary to construct the Project.
- 22 2. The Applicant, or its assignee(s), shall comply with all existing applicable ordinances,
23 master plans and regulations of the Town of Gila Bend, State of Arizona, the County
24 of Maricopa, the United States, and any other governmental entities having
25 jurisdiction.

1 3. This authorization to construct the Project will expire ten (10) years from the date the
2 Certificate is approved by the Commission unless the Project is completed and capable
3 of operation within the ten-year time frame. If the Project is not complete and capable
4 of operation within the ten-year time frame, the Applicant or its assignee(s), may
5 request that the Commission extend this time limitation.

6 4. In the event that the Project requires an extension of the term of this Certificate prior to
7 completion of construction, Applicant, or its assignee(s), shall use commercially
8 reasonable means to directly notify all landowners and residents within one mile of the
9 Project corridor for which the extension is sought. Such landowners and residents
10 shall be notified of the time and place of the proceeding in which the Commission shall
11 consider such request for extension.

12 **Status-** The Applicant shall comply with the above notification requirements.

13 5. The Applicant, or its assignee(s), shall document and make every reasonable effort to
14 identify and correct, on a case-specific basis, all complaints of interference with radio
15 or television signals from operation of the transmission lines and related facilities
16 addressed in this Certificate. The Applicant, or its assignee(s), shall maintain written
17 records for a period of five years of all complaints of radio or television interference
18 attributable to operation, together with the corrective action taken in response to each
19 complaint. All complaints shall be recorded to include notations on the corrective
20 action taken. Complaints not leading to a specific action or for which there was no
21 resolution shall be noted and explained.

22 **Status-** The Solana Gen-Tie is not yet operational and therefore not producing any
23 electromagnetic signals. Based upon the Applicant's engineering analysis, no signal
24 interference is anticipated. However, once the Gen-Tie is in service and should any
25 complaints of radio or television interference be reported, the Applicant shall comply.
26

1 6. To the extent applicable, Applicant, or its assignee(s), shall comply with the notice and
2 salvage requirements of the Arizona Native Plant Law (A.R.S. §§ 3-901, *et seq.*) and
3 will, to the extent feasible, minimize the destruction of native plants during Project
4 construction.

5 **Status-** The Applicant shall comply.

6 7. Pursuant to A.R.S. § 41-844, if any archaeological, paleontological or historical site or
7 object that is at least 50 years old is discovered on state, county or municipal land
8 during Project-related activities, the person in charge shall promptly report the
9 discovery to the Director of the Arizona State Museum, and in consultation with the
10 Director, shall immediately take all reasonable steps to secure and maintain the
11 preservation of the discovery. If human remains and/or funerary objects are
12 encountered on private land during the course of any ground-disturbing activities
13 relating to the development of the subject property, Applicant shall cease work on the
14 affected area of the Project and notify the Director of the Arizona State Museum
15 pursuant to A.R.S. § 41-865.

16 **Status-** The Applicant shall comply.

17
18 8. Applicant, or its assignee(s), shall design the transmission lines to incorporate
19 reasonable measures to minimize impacts to raptors.

20 **Status-** The Applicant shall comply.

21
22 9. Applicant, or its assignee(s), shall use non-specular conductor and dulled surfaces for
23 transmission line structures.

24 **Status-** The Solana Gen-Tie is not yet under construction, but the Applicant has
25 procured non-specular conductors and galvanized transmission structures with dulled
26 surfaces.

1
2 10. Before construction on this Project may commence, the Applicant, or its assignee(s),
3 must file a construction mitigation and restoration plan ("Plan") with Commission
4 Docket Control. Where practicable, the Plan will specify the Applicant's plans for
5 construction access and methods to minimize impacts to wildlife, to minimize
6 vegetation disturbance outside of the Project right-of-way, and to revegetate native
7 areas following construction disturbance.

8 **Status-** Arizona Solar One has completed this action and filed evidence of such, with
9 the office of Arizona Corporation Commission Docket Control, on July 22, 2011.

10 11. With respect to the Project, Applicant, or its assignee(s), shall participate in good faith
11 in state and regional transmission study forums such as Southwest Area Transmission
12 to coordinate transmission plans related to the Project.

13 **Status-** The Applicant employs representatives who participate in and/or are members
14 of the Southwest Area Transmission group, the WIRES forum, and the WECC
15 Regional Transmission Planning study/steering groups. Further, the Applicant retains a
16 FERC attorney who represents the company in regional and national transmission
17 planning groups and advises the company on matters related to FERC, NERC, and
18 WECC activities.

19
20 12. Within 120 days of the Commission decision granting this Certificate, Applicant, or its
21 assignee(s), will post signs in public rights-of-way giving notice of the Project corridor
22 to the extent authorized by law. The Applicant, or its assignee(s), shall place signs in
23 prominent locations at reasonable intervals such that the public is notified along the
24 full length of the transmission line until the transmission structures are constructed. To
25 the extent practicable, within 45 days of securing easement or right-of-way for the
26 Project, the Applicant, or its assignee(s), shall erect and maintain signs providing

1 public notice that the property is the site of a future transmission line. Such signage
2 shall be no smaller than a normal roadway sign. The signs shall advise:

- 3 (a) That the site has been approved for the construction of Project facilities;
- 4 (b) The expected date of completion of the Project facilities;
- 5 (c) A phone number for public information regarding the Project;
- 6 (d) The name of the Project;
- 7 (e) The name of the Applicant, or its assignee(s); and
- 8 (f) The website of the Applicant, or its assignee(s).

9 **Status-** On April 6, 2009 Arizona Solar One completed the action of posting signs within
10 the 120 days of the Commission decision. The action was than filed with the offices of
11 compliance Control and Docket Control on April 10, 2009. Once the right-of-way for the
12 Project is secured, within 45 days, the Applicant shall comply by erecting and maintaining
13 signs providing public notice of the future Solana Transmission Line.

14 **Status-** On February 10, 2011 Arizona Solar One completed the action of posting signs,
15 along the full length of the transmission line, providing public notice that the property is
16 the future site of the transmission line. Evidence of this action was than filed with the
17 office of Arizona Corporation Commission Docket Control on February, 16, 2011.

18 13. The Applicant, or its assignee(s), shall provide copies of this Certificate to the Town of
19 Gila Bend, the Maricopa County Planning and Development Department, the Arizona
20 State Land Department, the State Historic Preservation Office, and the Arizona Game
21 and Fish Department.

22 **Status-** Arizona Solar One completed this action on November 13, 2009. This action
23 was than filed with the offices of Compliance Control and Docket Control on
24 November 19, 2009.

25 14. Within 120 days after the approval of this Certificate by the Commission, Applicant, or
26 its assignee(s), will provide known homebuilders and developers within one mile of

1 the center line of the Certificated route (i) a copy of this Certificate, (ii) a map showing
2 the location of the Project, (iii) a pictorial depiction of the type of power line being
3 constructed, and (iv) a written request that the developers and homebuilders include
4 this information in the developers' and homebuilders' homeowners' disclosure
5 statements.

6 **Status-** Arizona Solar One completed this action in conjunction with item thirteen
7 (13), on April 6, 2009, providing the two know homebuilders and developers in the
8 area with the required attachments. This action was than filed with the offices of
9 Compliance Control and Docket Control on April 10, 2009.

10
11 15. Before commencing construction of Project facilities located parallel to and within 100
12 feet of any existing natural gas or hazardous liquid pipeline, the Applicant, or its
13 assignee(s), shall:

14 (a) Perform the appropriate grounding and cathodic protection studies to show that
15 the Project's location parallel to and within 100 feet of such pipeline results in
16 no material adverse impacts to the pipeline or to public safety when both the
17 pipeline and the Project are in operation. If material adverse impacts are noted
18 in the studies, Applicant, or its assignee(s), shall take appropriate steps to
19 ensure that such material adverse impacts are mitigated. Applicant, or its
20 assignee(s), shall provide to Commission Staff reports of studies performed;
21 and

22 (b) Perform a technical study simulating an outage of the Project that may be
23 caused by the collocation of the Project parallel to and within 100 feet of the
24 existing natural gas or hazardous liquid pipeline. This study should either:
25 i) show that such outage does not result in customer outages, or ii) include
26

1 operating plans to minimize any resulting customer outages. Applicant, or its
2 assignee(s), shall provide a copy of this study to Commission Staff.

3 **Status-** The actions identified in (a), above, have been completed by Arizona Solar
4 One and submitted to Arizona Corporation Commission Docket Control on November
5 17, 2011. The actions identified in (b), above, have been completed by Arizona Solar
6 One and submitted to Arizona Corporation Commission Docket Control on November
7 2, 2011.

8 16. Applicant, or its assignee(s), will follow the latest Western Electricity Coordinating
9 Council/North American Electric Reliability Corporation planning standards as
10 approved by the Federal Energy Regulatory Commission, and National Electrical
11 Safety Code construction standards.

12 **Status-** The Applicant has incorporated WECC, NERC, and NESC standards in the
13 design of the Solana Gen-tie and shall comply with the relevant operating standards of
14 these bodies once the Solana Gen-Tie is operational.

15
16 17. The Applicant, or its assignee(s), shall submit a self-certification letter annually,
17 identifying progress made with respect to each condition contained in the Certificate,
18 including which conditions have been met. Each letter shall be submitted to the
19 Commission Docket Control on December 1, beginning in 2009. Attached to each
20 certification letter shall be documentation explaining how compliance with each
21 condition was achieved. Copies of each letter along with the corresponding
22 documentation shall be submitted to the Arizona Attorney General and Department of
23 Commerce Energy Office. The requirement for the self-certification shall expire on
24 the date the Project is placed into operation.
25
26

