

BEFORE THE OHIO POWER SITING BOARD

In the Matter of the Application of)	
Alamo Solar I, LLC)	
for a Certificate of Environmental)	Case No. 18-1578-EL-BGN
Compatibility and Public Need)	

DIRECT TESTIMONY OF MATT MARQUIS

1 **Q.1. Please state your name, title and business address.**

2 **A.1.** My name is Matt Marquis. I am a Project Engineer at Hull & Associates, LLC.
3 My business address is 6397 Emerald Parkway, Suite 200, Dublin, OH 43016.

4 **Q.2. What are your duties as a Project Engineer?**

5 **A.2.** As a project engineer at Hull & Associates, Inc. I am responsible for managing
6 projects related to storm water and hydrologic and hydraulic (H&H) studies. I am also a
7 technical lead for many of the same projects I manage and others throughout the company. I am
8 responsible for civil engineering design for dams, landfills and land development projects. For
9 dam projects, I am responsible for performing dam site inspections, performing H&H analysis to
10 support rehabilitation and repair options to achieve regulatory compliance, developing
11 Emergency Action Plans and Operation Maintenance and Inspection Manuals, and developing
12 construction drawings and quantities. For storm water management projects and all other
13 projects at Hull, I prepare H&H studies to support the engineering design, I prepare construction
14 drawings with erosion and sediment control design, and I provide Ohio EPA surface water
15 construction permitting assistance for both public and private Clients through preparation of
16 Storm Water Pollution Prevention Plans.

17 **Q.3. What is your educational and professional background?**

A.3. I am a registered Professional Engineer in the state of Ohio, Pennsylvania and West Virginia and a Certified Floodplain Manager with the state of Ohio. I completed my master's degree in civil engineering in 2014 with a focus on geotechnical engineering from Norwich University in Northfield, VT. I completed my bachelor's degree in construction engineering technology in 2011 from the University of Toledo. I completed nearly 12 months over three calendar years of cooperative work-education as a fulltime engineer at BBC&M Engineering, Inc. in Dublin, OH before being hired in 2011 as a staff engineer. Soon after being hired, BBC&M was acquired by S&ME, Inc. and I continued working at S&ME until September, 2017 when I joined Hull & Associates, Inc. I am currently a project engineer at Hull. Throughout my career I have served on multiple boards and committees for professional development. I spent three years as a member of the Central Ohio Section of the American Society of Civil Engineers younger member group and was elected vice president of the group in my third year. My career has focused on engineering projects related to water resources. My project experience includes a wide range of hydrologic and hydraulic (H&H) analyses, surface water management and erosion and sediment control design. I function as the H&H lead on many large and small engineering design projects and flood studies for public and private clients covering dams, landfills, ash ponds, site development and redevelopment, site remediation, oil & gas projects, and stream and wetland restoration projects. My technical hydrologic experience includes watershed analysis using simplified methods such as the rational method and TR-20 through more complex statistical and regression analyses using stream and rainfall gage data, 1-dimensional and 2-dimensional stream channel and floodplain modeling, dam breach and breach inundation mapping studies, and steady-state flood studies in support of project work within mapped floodplains and floodways established by Flood Insurance Rate Maps. My technical

1 surface water hydraulics experience includes pressure pipe flow, weir flow, culvert design, inlet
2 and outlet protection, open channel armoring design, and steady-state and unsteady hydraulic
3 modeling of streams and rivers. During my time at S&ME, I also worked closely with the Ohio
4 Department of Natural Resources Division of Engineering and Division of Water Resources
5 Dam Safety under an owner-agent contract for nearly two years to assist the Divisions with the
6 update and consistency reviews of all 54 state-owned Class I dam Emergency Action Plans, each
7 of which included flood inundation mapping updates.

8 **Q.4 On whose behalf are you offering testimony?**

9 **A.4.** I am testifying on behalf of the Applicant, Alamo Solar I, LLC.

10 **Q.5. Did you previously provide testimony on behalf of the Applicant?**

11 **A.5.** No.

12 **Q.6. What is the purpose of your supplemental testimony?**

13 **A.6.** The purpose of my testimony is to address Condition 29 in the Amended and
14 Restated Joint Stipulation filed on July 30 (“Amended Joint Stipulation”).

15 **Q.7. Have you reviewed the Amended Joint Stipulation filed?**

16 **A.7.** Yes.

17 **Q.8. What permits will the Project be required to obtain related to stormwater**
18 **management during construction?**

19 **A.8.** In compliance with the Ohio Water Pollution Control Act, dischargers from
20 construction activity are authorized by the Ohio Environmental Protection Agency (OEPA) to
21 discharge stormwater from the site to waters of the state in accordance with the General Permit
22 Authorization for Storm Water Discharges Associated with Construction Activity Under the
23 National Pollutant Discharge Elimination System, Ohio EPA Permit No. OHC000005, effective

1 April 23, 2018 (“General Permit”). Construction projects disturbing one or more acres of land, or
2 that disturb less than one acre but are part of a larger plan of development, need to apply for this
3 coverage under the General Permit.

4 **Q.9. Can you describe Condition 29 of the Amended Joint Stipulation?**

5 **A.9.** Yes. Condition 29 was added to the Amended Joint Stipulation. It reads as
6 follows:

7 If one acre or more of ground is disturbed, the Applicant shall obtain from Ohio
8 EPA a “General Permit Authorization for Storm Water Discharges Construction
9 Associated with Construction Activities” (also known as a Construction General
10 Permit). Following the completion of final project engineering design, the
11 Applicant shall perform pre- and post-construction stormwater calculations to
12 determine if post-construction best management practices are required, based on
13 requirements contained in Ohio EPA’s Construction General Permit. The
14 calculations along with a copy of any stormwater submittals made to the Ohio EPA
15 shall be submitted to the Preble County Office of Land Use Management and the
16 Preble Soil & Water Conservation District. The Applicant will also provide
17 confirmation that it incorporated guidance from the Ohio EPA’s document
18 “Guidance on Post-Construction Storm Water Controls for Solar Panel Arrays”
19 dated October 2019 to the Preble County Office of Land Use Management and the
20 Preble Soil & Water Conservation District. If post construction storm water best
21 management practices are required, the Applicant will submit construction
22 drawings detailing any stormwater control measures to the Preble County Office of
23 Land Use Management and the Preble Soil & Water Conservation District, as
24 applicable, no less than seven days prior to the applicable construction activities.

25 This condition obligates the Applicant to obtain coverage under the General Permit and to
26 evaluate what post-construction practices, if any, may be necessary. This condition also
27 obligates the Applicant to submit documentation of its supporting calculations to the Preble
28 County Office of Land Use Management and Preble Soil & Water Conservation District. Finally,
29 Condition 29 requires the Applicant to provide confirmation that it incorporated guidance from
30 Ohio EPA’s “Guidance on Post-Construction Storm Water Controls for Solar Panel Arrays” to
31 those two local agencies. Among other items, this guidance provides that, in some cases,

1 stormwater at a project can be managed through the standard post-construction practices in the
2 General Permit. It also recommends the use of low- and slow-growing grass varieties.

3 **Q.10. Does Condition 29 in the Amended Joint Stipulation adequately provide for**
4 **management of any post-construction stormwater flows?**

5 **A.10.** In my opinion, yes. Condition 29 will help to ensure that post-construction
6 stormwater flows are appropriately managed, that if any post-construction control measures are
7 required that they are reviewed, approved and maintained in accordance with Ohio EPA
8 regulations, and that local agencies are aware of those measures.

9 **Q.11. Does this conclude your supplemental testimony?**

10 **A.11.** Yes, it does.

CERTIFICATE OF SERVICE

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/s/ Michael J. Settineri

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Summary: Testimony Direct Testimony of Matt Marquis electronically filed by Mr. Michael J. Settineri on behalf of Alamo Solar I, LLC