

**DOCKETED**

<b>Docket Number:</b>	23-OPT-02
<b>Project Title:</b>	Darden Clean Energy Project
<b>TN #:</b>	253570
<b>Document Title:</b>	Hydrogen Wastewater Disposal Update 12082023
<b>Description:</b>	Update to proposed methods for discharge of wastewater from the hydrogen electrolyzer.
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<b>Organization:</b>	Intersect Power
<b>Submitter Role:</b>	Applicant
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December 8, 2023

**Subject: 23-OPT-02 Darden Clean Energy Project Opt-In Application –  
Wastewater Management Update**

Application materials submitted in November 2023 for the Darden Clean Energy Project, including *Section 5.13, Water Resources* and *Appendix S – Water Supply Assessment*, stated the following:

As noted, water quality treatment is required for feedstock water; this is because the process of electrolysis requires very high-quality feedstock water. Therefore, the Project would include an on-site reverse osmosis (RO) and Electrode ionization (EDI) system for water quality treatment. The RO/EDI system would concentrate dissolved solids existing in the raw water feedstock, while extracting pure water from the feedstock. The waste stream produced by this process is a brine that is higher in total dissolved solids (TDS) than the raw water feedstock, and would need to be disposed of. Several options for brine disposal are currently being considered, including disposal via deep injection well, disposal by discharge to land, incorporating a zero-liquid discharge system that would produce solid waste for disposal, among others.

After further diligence and analysis of options for disposal of wastewater resulting from processing of water for the hydrogen electrolyzer, the applicant has opted to pursue zero-liquid discharge for brine treatment and is no longer considering other options for disposal of hydrogen electrolyzer wastewater.

IP Darden I, LLC and Affiliates  
c/o Intersect Power, LLC