



February 15, 2019

Ms. Ann Seiler
Environmental Consultant
Florida Department of Environmental Protection
Siting Coordination Office (SCO)
2600 Blair Stone Road, MS 5500
Tallahassee, FL 32399-2400

RE: Orlando Utilities Commission
Stanton Energy Center
Power Plant Certification PA81-14M
Post-Certification Amendment Request for Construction of a New Well

Dear Ms. Seiler:

Pursuant to Section 403.5113(1), F.S.; Rule 62-17.205, F.A.C. and Condition of Certification A.XXII, I am submitting this letter and the enclosed attachments for the construction of a new well to withdraw water daily for cleaning of the heavy equipment used at the plant as a post-certification amendment request to Section B.III.B of the Stanton Energy Center (SEC) Site Certification #PA81-14M (SC) dated August 30, 2017. The equipment requires daily washing to maintain equipment life. The most economical approach to supply the water is to install a well adjacent to the decant cell facility where equipment is cleaned.

OUC is requesting a post-certification amendment to construct a new well to withdraw 168,000 gallons per day for equipment cleaning. The proposed well will not increase the total withdrawal currently allowed under SC #PA81-14M. I am attaching the following documents in support of this amendment request: 1) a summary of the groundwater facilities at the SEC; 2) a summary of the metered withdrawals at the SEC for the past 8.5 years; 3) calculations demonstrating the estimated withdrawal volume; and 4) a site map with the existing well locations.

Please contact me if you have any questions regarding this amendment submittal for the decant cell well.

Thank you,

Charlie Doud, PE

cc: Ms. Cindy Mulkey, FDEP, Program Administrator, Siting Coordination Office
Mr. James Hollingshead, PG, Supervising Hydrogeologist, SJRWMD
Mr. Chris Browder, OUC Chief Legal Officer
Mr. Chip Merriam, OUC Vice-President Legislative and Regulatory Affairs
Mr. Garfield Blair, Director, OUC Director Environmental Affairs
Mr. Mohamad Al-hawaree, PE, Ardaman and Associates, Inc., President
Mr. Francis Cheung, PE, Ardaman & Associates, Inc.
Mr. Douglas Dufresne, PG, Ardaman & Associates, Inc.

ORLANDO UTILITIES COMMISSION

**SUPPORTING DOCUMENTATION
OUC STANTON ENERGY CENTER
TRUCK WASH WATER SUPPLY WELL**

OUC utilizes heavy equipment to process and intern the coal combustion residues in the onsite landfill. This equipment requires daily washing to remove the corrosive materials adhering the equipment to provide a reasonable equipment life. The most economical approach to provide this capability is to install a Floridan aquifer well directly adjacent to the decant facility, which is the purpose this application.

OUC is requesting a permit to allow the withdrawal of 168,000 gpd for the abovementioned water supply uses. The Floridan aquifer permitted withdrawals under the Stanton Energy Center Conditions of Certification #PA 81-14M dated August 30, 2017 will not increase with this requested use.

Water Demand

The requested water supply demand is based on a pumped flow rate of 700 gpm for an estimated period of four (4) hours per day for the truck washing station. This equals to an average daily demand of 168,000 gpd.

Floridan Aquifer Supply Wells

Figures 1 and 2 show the locations of the two existing Floridan aquifer supply wells PW-1 (454199) and PW-2 (451967), and the proposed well DC-1. The table below shows the details of those facilities.

SUMMARY OF GROUNDWATER (WELL) FACILITIES

Site or Wellfield Name ¹	District ID (if available)	Owner's Well Name	Capacity (gpm)	Pump Type ²	Casing Diameter (inches) ³	Casing Depth (feet)	Total Depth (feet)	Status ⁴ (include date if proposed)
Stanton Energy Center	454199	PW-1	1,100	Turbine	14	233	530	Active
Stanton Energy Center	451967	PW-2	1,100	Turbine	14	243	505	Active
Stanton Energy Center		DC-1	700	Turbine	12	240	500	Proposed Aug 2018

Permitted Capacity

The Floridan aquifer permitted withdrawals under the Stanton Energy Center Conditions of Certification #PA 81-14M dated August 30, 2017 are 321.2 million gallons per year for the maximum annual withdrawal and 2.00 million gallons per day for the maximum daily withdrawal.

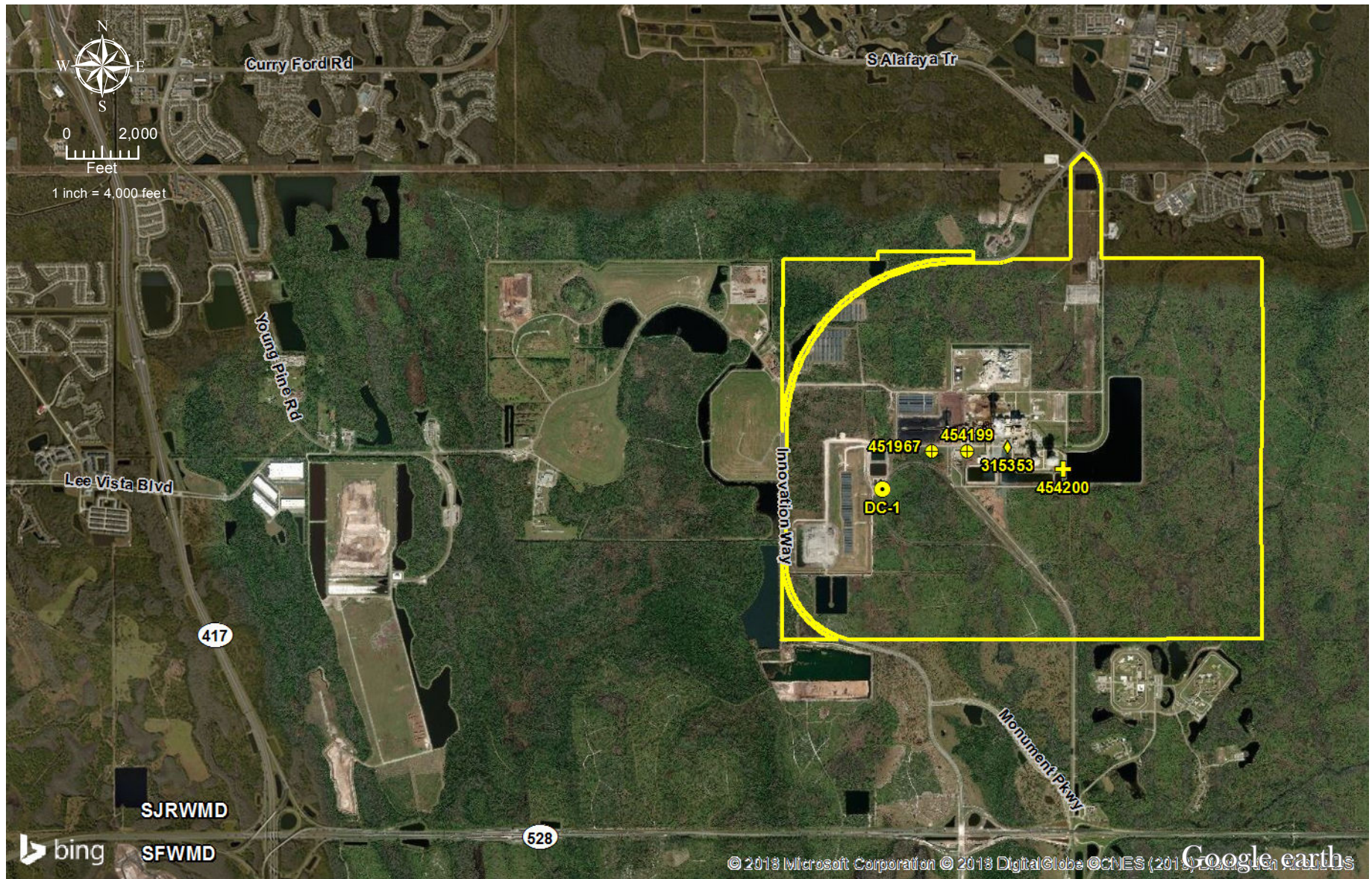
Current Floridan Aquifer Usage

The attached Table 1 shows the last 8.5 years of pumpage records for the Floridan aquifer production wells for the Stanton Energy Center. The total annual usage ranges from 155.884 to 193.973 MGY between 2010 and 2018. The average daily flow ranges from 0.427 to 0.531 MGD during this same period. Using the permitted maximum annual withdrawal rate of 321.2 MGY,

the average daily rate is equal to 880,000 gpd. Subtracting the highest average daily flow rate in the last 8.5 years (2014) of 531,000 gpd from the permitted average daily rate, there is at least 349,000 gpd available for use. The requested amount for the truck wash water well is 168,000 gpd. That would leave an additional 181,000 gpd for increased demands elsewhere in the Stanton Energy Center.

TABLE 1
STANTON ENERGY CENTER
FLORIDAN AQUIFER WELL USAGE (MG)

YEAR	2010	2011	2012	2013	2014	2015	2016	2017	2018	Averages
January	12.678	13.258	11.447	9.032	15.061	9.942	10.474	16.809	17.255	12.884
February	13.664	11.588	9.548	8.219	17.397	11.621	10.759	11.495	11.226	11.72411
March	12.665	12.907	12.178	10.222	16.58	15.181	12.695	14.974	18.937	14.03767
April	13.258	15.791	15.791	9.389	16.329	16.379	8.091	16.292	16.894	14.246
May	11.925	14.655	14.555	13.321	16.776	13.549	8.055	16.242	15.986	13.896
June	14.235	14.595	18.319	15.759	18.418	18.186	11.444	14.953	15.299	15.68978
July	14.427	13.917	13.924	17.035	17.844	15.523	12.767	13.643		14.885
August	14.216	15.023	14.289	16.557	16.745	15.357	18.086	14.866		15.64238
September	11.776	15.67	11.115	12.621	14.19	16.021	15.126	13.298		13.72713
October	11.611	16.282	13.18	12.902	14.89	12.714	15.128	15.617		14.0405
November	13.92	14.983	12.084	19.488	14.201	14.617	14.373	17.515		15.14763
December	15.304	14.417	10.031	12.905	15.542	12.004	18.886	15.928		14.37713
Totals	159.679	173.086	156.461	157.45	193.973	171.094	155.884	181.632	95.597	160.5396
ADF (MGD)	0.437477	0.474208	0.42866	0.43137	0.531433	0.468751	0.427079	0.497622	0.522388	0.468776



● Proposed Well
 Property Boundary
 ⊕ Water Supply Well
 + Reclaimed Connection
 ◆ Stormwater Pump
 454199 SJRWMD ID



● Proposed Well
 ⊕ Water Supply Well
 — Discharge Line
 451967 SJRWMD ID