

**STATE OF RHODE ISLAND AND PROVIDENCE PLANTATIONS
ENERGY FACILITY SITING BOARD**

**IN RE: INVENERGY THERMAL DEVELOPMENT LLC :
APPLICATION TO CONSTRUCT AND :
OPERATE THE CLEAR RIVER ENERGY : SB-2015-06
CENTER, BURRILLVILLE, RHODE ISLAND :**

**INVENERGY THERMAL DEVELOPMENT LLC'S RESPONSE TO
THE STATE OF RHODE ISLAND DEPARTMENT OF ADMINISTRATION,
DIVISION OF LEGAL SERVICES' DATA REQUESTS DATED APRIL 10, 2017**

REQUEST:

On January 11, 2017, Invenergy Thermal Development LLC submitted a revised Water Supply Plan for the Clear River Energy Project. Although the revised Water Supply Plan includes a revised traffic analysis, it does not include revised analyses for environmental impacts. The original application notes that construction of the proposed project will result in the alteration of up to approximately 67 acres of the existing forested lands, some of which will be restored, some of which will be permanently replaced by structures or low-growing vegetation which includes:

- Clearing forest within the proposed construction laydown areas;
- Permanently replacing forest with impervious surfaces within the footprint of the proposed generation facility, the substation location and along the alignment of the site access road;
- Permanently replacing forest with low-growing vegetation along the proposed overhead transmission line corridor and the proposed new gas line to the facility;

Given the revised submission, the Department of Administration, Division of Statewide Planning would like to know:

1. Are there changes to CREC footprint? If so, please provide a revised site layout.
2. What is the acreage that will be cleared for construction of the facility and associated infrastructure such as electrical transmission lines and natural gas pipelines.
3. How much of the disturbed area will be revegetated and restored.
4. What impact will the revision have on tax revenues to the State and the tax treaty with the Town of Burrillville?

RESPONSE:

1. There are minor changes to the Clear River Energy Center (CREC or Facility) footprint and a revised site layout is enclosed. The minor changes include:
 - a.) The center line spacing between the two power blocks was reduced from 350 feet to 300 feet; this allowed relocation of the site perimeter road to be moved out of the wetland buffer area.
 - b.) The fuel oil storage tank was relocated from the southeast side of the site to the northwest and the tank design was changed from two one-million-gallon storage tanks to a single two-million-gallon tank.
 - c.) The switch yard design was modified at the request of National Grid.
 - d.) Ammonia tank was relocated and its size reduced.
 - e.) The property line boundary was re-located to avoid any portion of the site being located within a designated aquifer recharge zone (the A-80 Zone) based on comments and concerns raised by the Burrillville Building Inspector and Zoning Official.
2. The acreage that will be cleared for construction of the Facility and associated infrastructure such as electrical transmission lines and natural gas pipelines, are as follows:
 - a.) The 67 acres described in the original application is the size of the entire parcel for the Facility. Only 36.1 acres will be disturbed (same as cleared) for construction of the facility and natural gas pipeline infrastructure.
 - b.) The electric transmission line has two components. Approximately 55 acres will be cleared in the portion owned by National Grid along the existing Narragansett Electric Company Right of Way (TNEC ROW). Approximately 14.5 acres will be cleared in the portion that will be owned by CREC from the power plant to the existing TNEC ROW.
 - c.) Trees will be cleared and some vegetation removed to open the corridor for the construction of the transmission line. Post-construction maintenance of the transmission line ROWs will comprise of vegetation management in accordance with TNEC's Right of Way Vegetation Management Plan, which encourages growth of low growing shrubs, ferns, wildflowers and grasses.
3. A total of 8.2 acres of the disturbed area at the Facility will be revegetated and restored.
4. There will be a slight increase in tax revenues to the State associated with the trucking of water from Johnston to the project site and there will be added taxes paid to the town of Johnston associated with the truck facility. There is no change to the tax treaty with the Town of Burrillville.

The acreage references described above are included in the "Application to Alter Freshwater Wetlands – Clear River Energy Center and Burrillville

Interconnection Project,” which has been submitted to the Rhode Island Department of Environmental Management.

RESPONDENT: John Niland, Invenergy Thermal Development LLC

DATE: April 25, 2017

INVENERGY THERMAL DEVELOPMENT LLC
By its Attorneys,

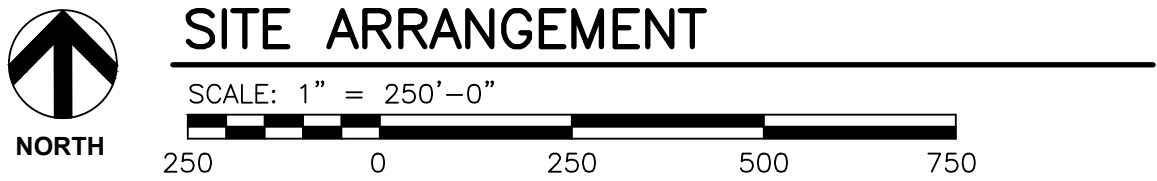
/s/ Alan M. Shoer

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Fax: 401-751-0604
Dated: April 25, 2017

CERTIFICATE OF SERVICE

I hereby certify that on April 25, 2017, I delivered a true copy of the foregoing responses to the State of Rhode Island Department of Administration, Division of Legal Services' Data Requests dated April 10 2017, via electronic mail to the parties on the attached service list.

/s/ Alan M. Shoer



SITE ARRANGEMENT

HDR HDR Engineering, Inc.								PRELIMINARY NOT FOR CONSTRUCTION OR RECORDING	CLEAR RIVER ENERGY LLC CLEAR RIVER ENERGY CENTER	SITE ARRANGEMENT		
	1	04/17/17	REVISED FOR PERMIT	EDC	ASH	DWM	—			FILENAME	C1000—0GA—238926.dwg	SHEET
	ISSUE	DATE	DESCRIPTION	DWN	ENGR	CHK	APPV			SCALE	AS NOTED	238926-0GA-C1000

1

2

3

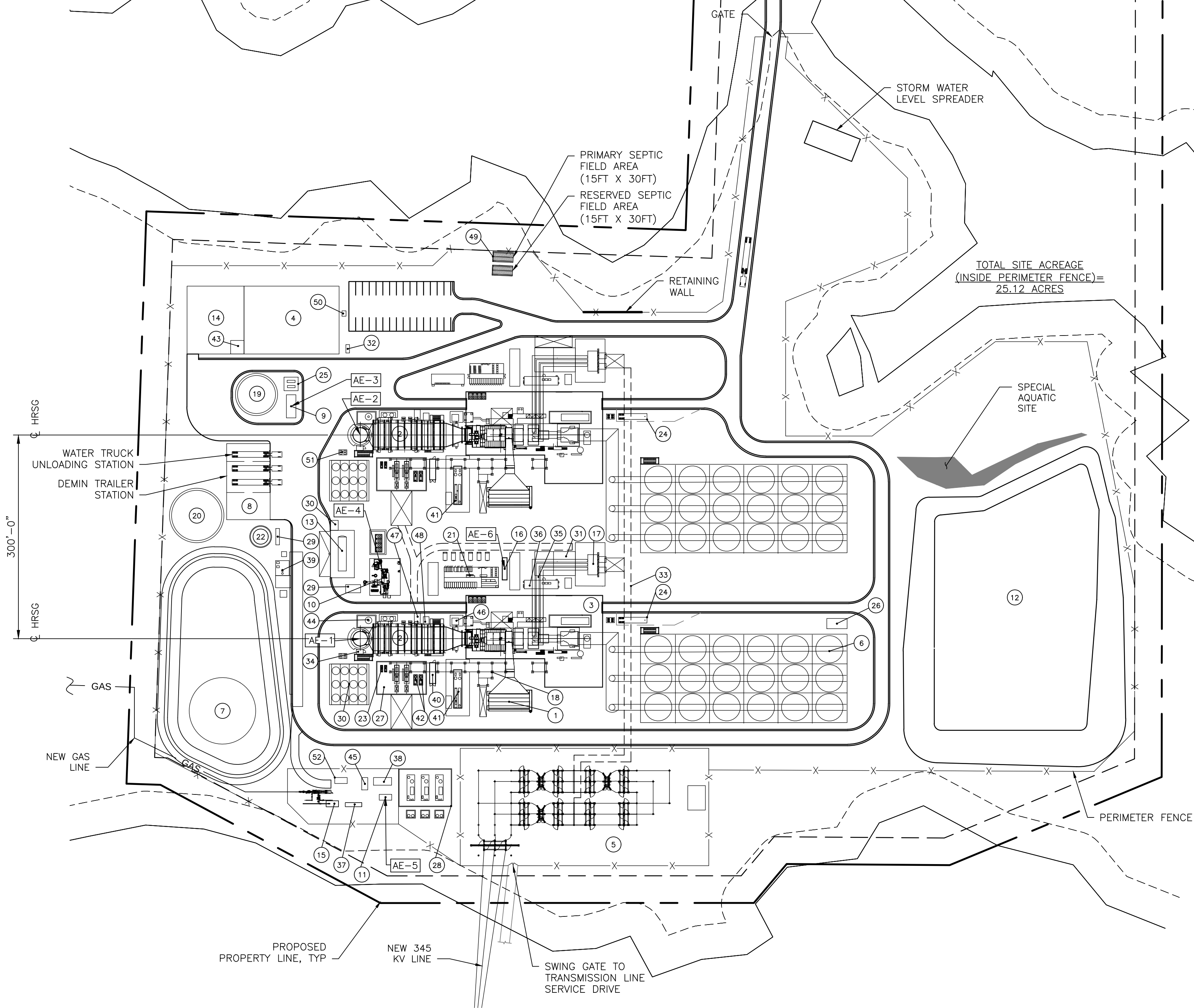
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5

6

7

8



GENERAL ARRANGEMENT

SCALE: 1" = 100'-0"

100 50 0 100 200 300

BUILDING AND EQUIPMENT LIST				
NO	NAME	SIZE (DIMENSIONS IN FEET)		
		LENGTH	WIDTH	HEIGHT
1	COMBUSTION TURBINE INLET FILTER	60	27	50
2	HEAT RECOVERY STEAM GENERATOR	103	44	135
3	TURBINE BUILDING	202	136	80
4	ADMINISTRATION/CONTROL BUILDING	140	100	25
5	SWITCHYARD (HEIGHT TO TOP OF DEAD END STRUCTURE)	367	153	70
6	AIR-COOLED CONDENSER	305	130	110
7	FUEL OIL STORAGE TANK	90ø	—	48
8	WATER TREATMENT BUILDING	112	64	30
9	FIRE PUMP BUILDING	34	14	15
10	AUXILIARY BOILER BUILDING	54	45	35
11	CTG FUEL GAS DEW POINT HEATER	18	9	15
12	STORM WATER DETENTION POND #1	—	—	—
13	AMMONIA STORAGE TANK	50	12	15
14	WAREHOUSE	100	84	25
15	FUEL GAS FILTER/SEPARATOR	24	6	15
16	EMERGENCY DIESEL GENERATOR	33	8	15
17	GSU TRANSFORMER	48	27	15
18	PIPE RACK	313	15	55
19	FIRE/SERVICE WATER TANK	64ø	—	49
20	DEMINERALIZED WATER STORAGE TANK	86ø	—	55
21	BOP ELECTRICAL	80	30	25
22	WASTE WATER TANK	32.5ø	—	30
23	HRSG LTE RECIRCULATION PUMPS	10	4	6
24	HYDROGEN TUBE TRAILER	42	8.5	15
25	WATER TRANSFER PUMP BUILDING	21	10	15
26	WASTE OIL STORAGE SHELTER	30	15	12
27	FEEDWATER PUMP BUILDING	74	49	25
28	GAS COMPRESSOR BUILDING	78.5	56	30
29	OIL WATER SEPARATOR	24	5	—
30	CCCW HEAT EXCHANGER	60	58	32
31	AUX. TRANSFORMERS	20	16	15
32	SUS TRANSFORMERS	51	25	12
33	345 KV UNDERGROUND DUCT BANK	—	5	—
34	CEMS SHELTER	9	8	12
35	GENERATOR CIRCUIT BREAKER	23.5	8	20
36	LCI EXCITATION CONTAINER	52	12	12
37	FUEL GAS FLOW METER	18	9	6
38	FUEL GAS PRESSURE REGULATION	27	11	6
39	FUEL OIL EQUIPMENT BUILDING	40	20	20
40	SAMPLE PANEL ENCLOSURE	31	9	12
41	FUEL GAS PERFORMANCE HEATER	57	13	10
42	CCCW PUMPS	16	16	6
43	WORKSHOP	20	20	25
44	BLOWDOWN TANK	10ø	—	10
45	LP FUEL GAS DEW POINT HEATER	18	9	8
46	WATER WASH DRAIN TANK	11	11	—
47	DUCT BURNER FUEL SKID	16	8.5	8
48	DUCT BURNER COOLING AIR BLOWER	12	8.5	6
49	SEPTIC LEACH FIELD	60	30	—
50	SEPTIC TANK	8	6	—
51	NITROGEN/CO BOTTLES	12	7.5	—
52	LP REGULATION	18	8.5	—

AIR EMISSION SOURCES (COMBUSTION SOURCES)				
NO	NAME	UTM COORDINATES		ELEVATION
		N	E	
AE-1	HRSG EXHAUST STACK 1	N4,649,602	E271,730	770.00'
AE-2	HRSG EXHAUST STACK 2	N4,649,648	E271,808	770.00'
AE-3	DIESEL FIRE WATER PUMP SKID VENT	N4,649,684	E271,800	587.00'
AE-4	AUXILIARY BOILER STACK	N4,649,606	E271,759	625.00'
AE-5	CTG FUEL GAS DEW POINT HEATER STACK	N4,649,557	E271,674	601.00'
AE-6	EMERGENCY DIESEL GENERATOR STACK	N4,649,562	E271,789	591.00'
1. UTM COORDINATES ARE FOR UTM GRID ZONE 19T. COORDINATES REMAIN UNCHANGED FOR ZONE 19 NORTHERN HEMISPHERE, UTM ZONE 19N DESIGNATION. 2. BASE ELEVATION IS 575 FEET AMSL				

HDR

HDR Engineering, Inc.

1	04/17/17	REVISED FOR PERMIT
0	02/16/17	REVISED FOR PERMIT
ISSUE	DATE	DESCRIPTION

EDC	ASH	DWM	—
EDC	ASH	DWM	—
DWN	ENGR	CHK	APPV

PRELIMINARY
NOT FOR
CONSTRUCTION
OR
RECORDING

CLEAR RIVER ENERGY LLC
CLEAR RIVER ENERGY CENTER

GENERAL ARRANGEMENT

FILENAME	C1001C-OGA-238926.dwg
SCALE	AS NOTED

SHEET
238926-OGA-C1001C

SB-2015-06 Invenergy CREC Service List as of 04/17/2017

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