

From: Steve Pearson <spearson@vfsmi.com>
Sent: Friday, March 31, 2023 8:09 PM
To: CSC-DL Siting Council <Siting.Council@ct.gov>
Cc: Fontaine, Lisa <Lisa.Fontaine@ct.gov>; jelicker@newhavenct.gov
Subject: FW: Council Decision on EM-VFS-093-221219e - Orange Street, New Haven

Hi Lisa, and thanks for the great help from CSC Siting Council. For the Orange Street fuel cell PP9675 we have:

1. The contingent PTO from UI so that the City can utilize the full fuel cell power and thermal byproduct. The contingency will be formally removed after UI reviews the set of new electrical drawings from ICDS which are completed and submitted to UI Engineering.
2. The HyAxiom COD checklist is signed and attached for commercial operations.

Please let me know if anything else is needed for the CSC. We are producing 400 kW of green electricity for City Hall. Thanks a lot, Steve

STEVE PEARSON

Green Energy Customer Financing Executive
248-657-4600 ext. 105
spearson@vfsmi.com

Commercial Operation Checklist

PureCell® System Model 400

Customer: Fuel Cell ESA UC II, LLC Location: 200 Orange Street, New Haven, CT 06510
Powerplant S/N: 9675



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Checklist

Cognizant customer information needed.

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Startup Activities

These activities are required for commercial operation.

Page 3

PureCell® System Model 400

STARTUP ACTIVITIES REQUIRED FOR COMMERCIAL OPERATION

Customer Name: Fuel Cell ESA UC II, LLC

System Serial Number: 9675

System Location (City, State): 200 Orange Street, New Haven, CT 06510

System Communications Information: Digi 4G

Powerplant Controller Phone Number or Static IP Address: 166.143.182.32

Name of Installers Office: HyAxiom Inc, South Windsor, CT

Installers Office Phone Number: 860-727-2847

Installers Emergency Point of Contact: HyAxiom's Control Center
860-727-2847 (24/7/365)

Name of HyAxiom field service technician: Barry Smith

Please fill in the information below and email it to DoosanCC@doosan.com

Responsible Site Customer/Operator to be contacted for Service Access and Notifications:

Steve Pearson

Responsible Site Customer Phone Number (Office and Mobile):

spearson@VFSMI.com (248) 417-0674

HyAxiom, Inc.

The HyAxiom technician is to complete each of the following activities and indicate completion by signing and dating each activity. The actual number of activities required will vary by site.

- * 3/6/2023 – JS CONFIRM THAT THE PHONE LINE OR STATIC IP ADDRESS IS FULLY FUNCTIONAL (The phone line/static IP address must be installed and operational prior to initiating any further start-up activities)
- * 3/27/2023– JS Demonstrated steady state max power output with attached screen shot
- * 3/27/2023 - JS 72 Hour Hold at Full Power/Nominal Power with attached screen shot
- * N/A Power Factor Testing as Required by Site
- * N/A Grid Independent Testing (if required)
- * N/A Low Grade Heat Recovery Testing (if required)
- * 3/28/2023 High Grade Heat Recovery Testing (if required)
- * 203°F (95°C) High Grade max set-point(°F)
- * N/A Ancillary Equipment Testing (if required)
Note: Chiller and cooling tower startups will be completed during the appropriate season, which may not be at the time of powerplant startup.
- * N/A Beckwith Relay Testing (if required)
- * 3/21/2023 – JS Utility Interconnect Testing (if required)
- * 3/6/2022 – JS Verify Proper Operation of Remote Monitoring System
- * N/A Verify Proper Operation of Efficiency Monitoring System (if required)
- * N/A Verify Proper Operation of Shark Meter or equivalent (if required)

3/28/2023

Commercial Operation Date

Provider Signoff:



Signature

Eric O'Brien -Director, Service & Installation

3/28/2023

Date

Steady state max power:

≡

PPLT ID: 9875

CONFIG: PCS0 SM

PPC Version: 6.3.1.2

POWERPLANT STATUS

LOAD/G/G

LOCAL OPERATOR CONTROL

POWERPLANT OPERATIONS

MAJOR DATA

ELECTRICAL EFFICIENCY	37.0308 %	OPERATING TIME	50690457 hr	CUMULATIVE POWER	186810841 MMWh	REFORMER TEMP	895.1832 °C
STACK/OOP TEMP	165.9263 °C	POWER FACTOR	1	SET POWER	400	ACTUAL POWER	400.9 kW

Start PP

Plant Shutdown

Power Reset

Burner Relight

Watchdog Reset

SID TYPE

ASD	BSD	CSD	FSD	HSD	ISD	LORSID
NORMAL	RSD	SSD	TSD	WSD	XSD	

TOTAL ALARMS

4

Clear Alarms

Current Active Events

Events Log

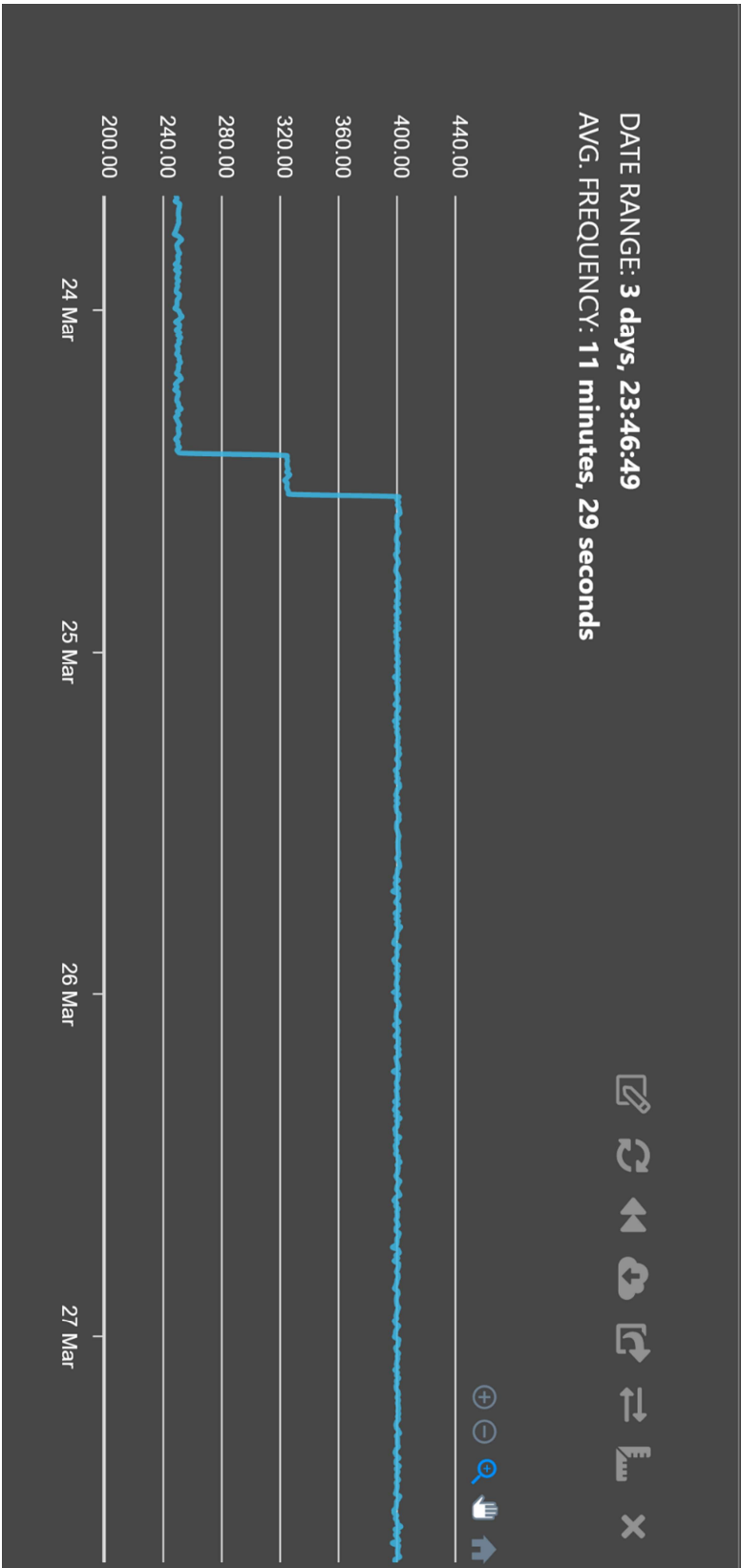
OPERATION MODE

KW DISPATCH

EXT DISPATCH

P	R	S	W	A	N	C	I	I	KVA/ACT	IDC/NORM	VID/CTOT	TE400FT	TE012FT	
150	160	60	20	30	60	30	20	50	400.9	514.1931	858	165.9263	895.1832	
Date 3-27-2023										Time 16:15:21		Total Alarms 4		Overrides 0

72-hour hold:



FCMAN79855

High Grade Heat test, 95C set point

