

DOCKETED

Docket Number:	20-SPPE-02
Project Title:	Lafayette Backup Generating Facility
TN #:	249072
Document Title:	Report of Conversation - Cooling System Refrigerant Use
Description:	Conversation between Jacquelyn Record, Air Resources from CEC and Greg Darwin, Atmospheric Dynamics, Inc., and Scott Galati, DayZenLLC.
Filer:	Marichka Haws
Organization:	California Energy Commission
Submitter Role:	Commission Staff
Submission Date:	3/9/2023 12:15:48 PM
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*Siting, Transmission
 and Environmental
 Protection Division*

FILE: n/a

PROJECT TITLE: Lafayette SPPE **Docket: 20-SPPE-02**

TECHNICAL AREA(s): GHG			
<input type="checkbox"/> Telephone	<input checked="" type="checkbox"/> Email	<input type="checkbox"/> Meeting Location: N/A	
NAME and title:	Jacquelyn Record – Air Resources	DATE: March 3, 2023	TIME: n/a
WITH:	Greg Darvin (Atmospheric Dynamics, Inc.) and Scott Galati (DayZenLLC)		
SUBJECT:	Lafayette Data Center (LDC) cooling system refrigerant use		

COMMENTS:

I sent an email to Scott Galati and Greg Darvin requesting additional information regarding LDC’s refrigerant use and type.

Greg Darvin responded with the information below.

The project will be using R-513a as the refrigerant in the 88 chillers. Based on an assumed leakage rate of 0.5%, we get the following CO2e emissions:

Parameter	Value
Refrigerant Type	R-513a
GWP Value	537
# of Proposed Chiller Units	88
Charge per Chiller	812 lbs
Total Charge (all chillers)	71,456 lbs
Estimated Annual Loss Rate	<= 0.5% (0.005)
Annual R-513a Losses	357.28 lbs
CO2 Equivalents	191,859.4 lbs 87.03 Mtpy

CALIFORNIA ENERGY COMMISSION

REPORT OF CONVERSATION

Page 2 of 2



cc: Joseph Hughes, Air Resources
Supervisor I, CEC

Signed:

_____ |s| _____

Name:

Jacquelyn Record