



eCHO

THE PATRICK AND MARCELLE
LEAHY CENTER FOR LAKE CHAMPLAIN

Coffee Breakfast Lunch
Waterside Cafe Snacks Sweets

THE ECHO SHO

Green
UP!
Burlington
Vermont



Renewable Energy/Environmentally Responsible



Reducing Consumption/Waste



Reducing Consumption



Reducing Greenhouse Emissions

AUTOMATEDLOGIC
United Technologies

WebCTRL

Licensed to **ECHO Lake Aquarium and Science Center** for use at **ECHO Lake Aquarium and Science Center**.
Serial Number (W200900382) Use of this product is governed by the referenced [EULA](#).

Login Name:
Password:

BUILDING SUMMARY



ECHO

BUILDING SUMMARY

- Central Equipment
 - Chilled Water System
 - Air Handler
 - Boilers
 - Domestic Hot Water
 - ROOM %RH SENSOR
 - Outdoor Air Conditions
 - Occ Sensor Lockout
- Aquatics
 - Marine Filtration
 - Sculpin Filtration
 - Brook Trout Pump
 - System C: Salmon/Trout, Invasives (New)
 - System E: Lake Tank, Upper River (New)
 - Ambient/Cold Reservoir Levels
 - Chilled Reservoir Cooling (New)
 - Ambient Reservoir Cooling (New)
 - Ambient Reservoir Heating (New)
- Zones
 - Life Support (V1-1)
 - Into the Lake (V1-2)
 - Restrooms (V1-3)
 - Invasives Exh Rm (V1-4)
 - Gift Shop - Main (V1-5)
 - Gift Shop - Admin (V1-6)
 - Temp Exh Hall (V1-7)
 - Atrium (V1-8)
 - DAC (V1-9)
 - Community Rm (V1-10)
 - NOT USED (V1-11) Old Cafe
 - Receiving (V1-12)
 - Champ Lane (V2-1)
 - Land of Opp (V2-2)
 - B4 the Basin (V2-3)
 - Animal Care Lab (V2-4)

53.1 °F Sunrise 4:13:00.00 AM
 77 %rh Sunset 7:28:00.00 PM
 20.3 enth

Heating Water

Boiler 1 Standby
 Boiler 1 Enable Off
 Boiler 1 Status Stop
 Boiler 2 Standby
 Boiler 2 Enable Off
 Boiler 2 Status Stop
 Heating Water Supply 109.1 °F
 DHW Supply Temp 135.1 °F

Chilled Water

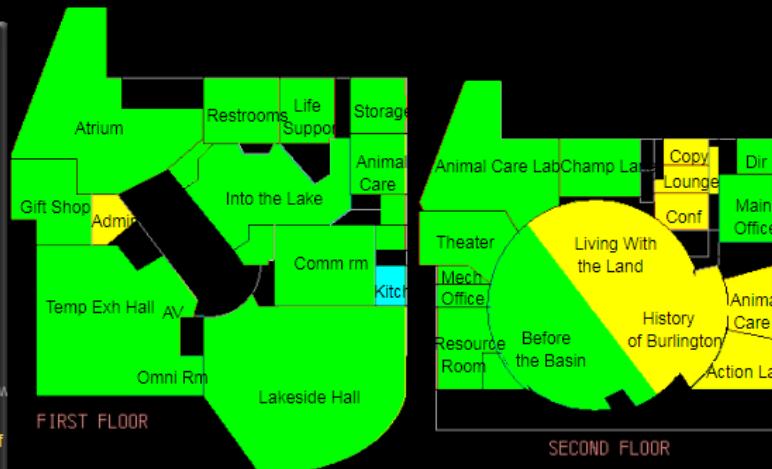
Chilled Water Temp 45.2 °F
 Static Pressure 1.1 in w
 Supply Temp 65.0 °F
 Generator Off

Air Handler

Heater Off
 Windows 0 % c
 Overhead Exhaust Fan Off

Aquatic Life Support Systems

P-11	On	FP-1	On
P-12	On	FP-2	On
		Sculpin	57.2 °F
		System E	65.3 °F
		System C	59.8 °F
		Marine Display	56.2 °F
		Brookies pump (not temp)	69.0 °F
		Chilled Storage Cooling	55.6 °F
		Ambient Storage-Cooling	65.0 °F
		Ambient Storage-Heating	65.2 °F



FIRST FLOOR

SECOND FLOOR

NORTH



ERV-1

Supply Temp 66.40 °F
 Fan Speed 100.00 %
 Humidity 21.60 %rh

Heat Pump Loop

HP Loop Supply 74.90 °F
 HP Loop Return 78.90 °F

53.2 °F
76.8 %rh
20.3 BTU/lb

Air Handler

Notes

Generator Power Off



Cmd On
Status On
Speed 12 %
Frequency 7 hz
Demand 5 kW

Stpt 1200 cfm
1133 cfm

Bathrm Exhaust
Bath Exhaust Traq Damper
50 %Open

RA Temp 71.1 °F
RA Enthalpy 26.9 BTU/lb
RA Dewpoint 52.7 °F

71.3 °F

100 %Open

71.1 °F

11194 cfm

Stpt 25.0 %rh
52 %rh

Normal

35 %Open
Outside Air Traq Damper

2724 cfm
35.2 % OA
Min OA 30.0 %

100 %Open
Heatwheel Enable Off

59.6 °F

92 %Open

64.8 °F

Cmd On
Status On
Speed 54 %
Frequency 32 hz
Demand 12 kW

CHW
0 %Open

65.4 °F

Stpt 65.2 °F

Normal

0 %

Normal

56 %rh

1.00 in WC

Stpt 0 %rh

Stpt 1.05 in WC

freeze stat (auto reset)
trips since reset 0
lock out if more than 3 trips
auto freeze stat Normal
freeze lock out Normal
reset lockout No

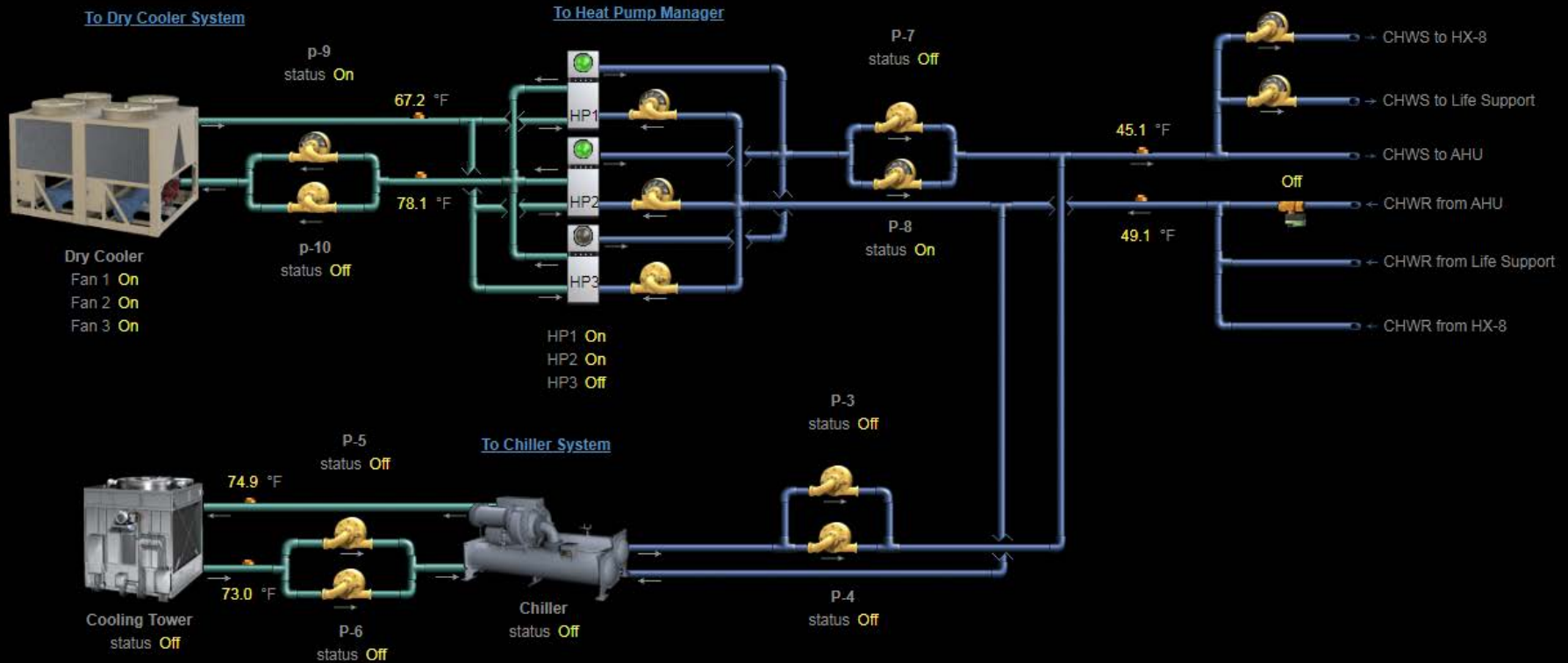
SA Stpt
Min 54.0 °F
Max 68.0 °F

Supply Airflow 7748.00 CFM
(Based on Total VAV Airflow)

SA Enthalpy 24.4 BTU/lb
SA Dewpoint 49.3 °F

Chilled Water System

Notes



Keeper Enterprise V8

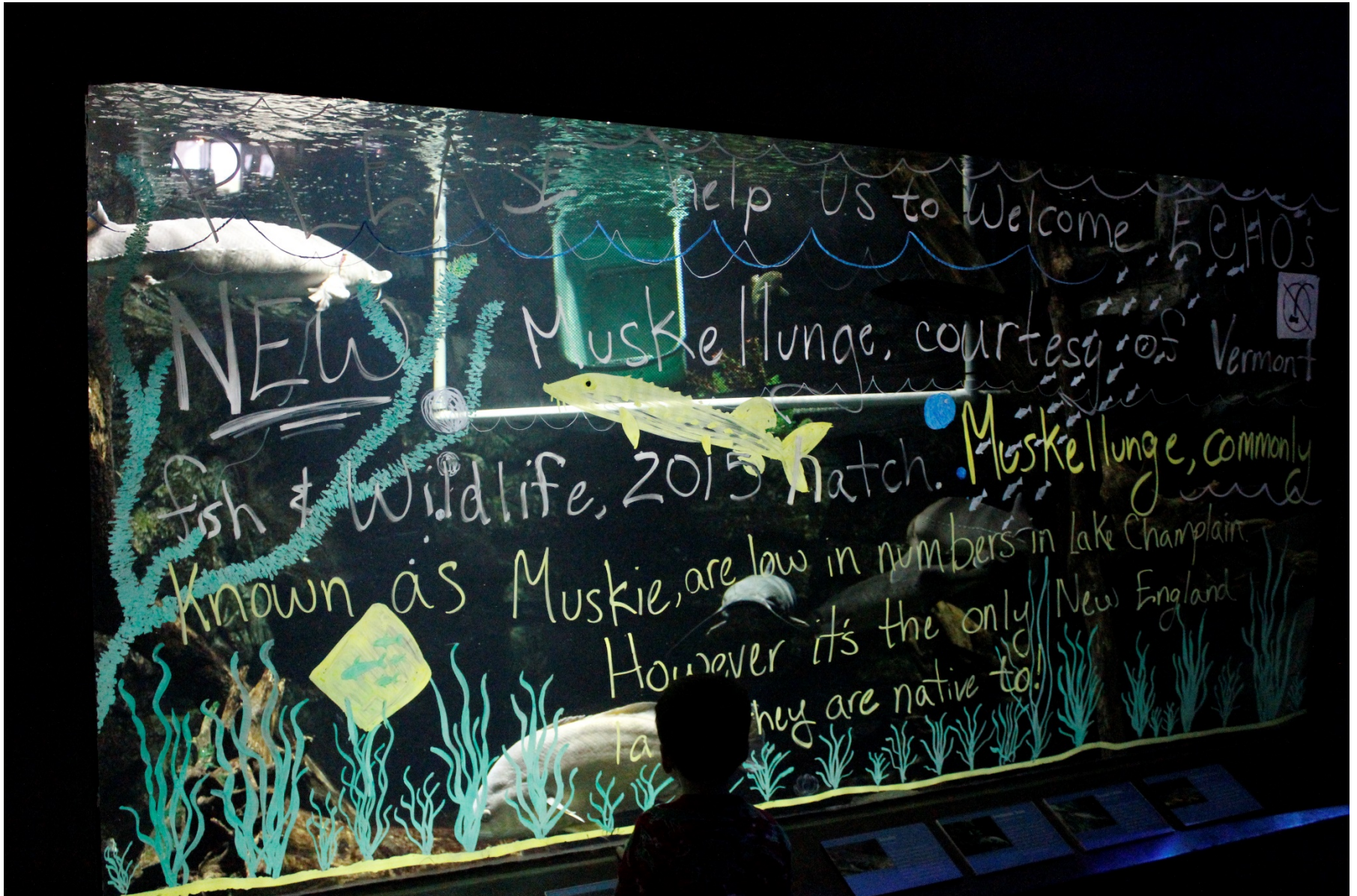
Getting Started...



Site Map	Site Paths	Number	Name	Note	Type	Broadcast	Warn Sentry	Warn Min	Warn Sec	Log
ECHO		1	HP136-01	SPARE-1	Normally Open	No	No	0	0	Yes
ECHO		2	HP129-02	LKSD - Cans (LH & Community Room Entrances)	Normally Open	No	No	0	0	Yes
ECHO		3	HP132-03	LVSC - 1st Floor (Always ON) (Drig Guest Service?)	Normally Open	No	No	0	0	Yes
ECHO		4	HP134-04	?LVSC (Always ON) 1st FI Closets, DAC, Receiving?	Normally Open	No	No	0	0	Yes
ECHO		5	HP135-05	SPARE-5	Normally Open	No	No	0	0	Yes
ECHO		6	HP130-06	LVSC - (Always ON) 1st FI Closets, DAC, Receiving	Normally Open	No	No	0	0	Yes
ECHO		7	HP135-07	SPARE-7	Normally Open	No	No	0	0	Yes
ECHO		8	P131-08	SPARE-8	Normally Open	No	No	0	0	Yes
ECHO		9	HP133-09	REST (First Floor)	Normally Open	No	No	0	0	Yes
ECHO		10	HP133-10	Can in Under the Lake	Normally Open	No	No	0	0	Yes
ECHO		11	SPARE-11	SPARE-11	Normally Open	No	No	0	0	Yes
ECHO		12	HP133-12	Recessed Cans over boardwalk and Guest Serv office	Normally Open	No	No	0	0	Yes
ECHO		13	HP131-13	SPARE-13	Normally Open	No	No	0	0	Yes
ECHO		14	HP131-14	Cans (recessed in wood slats by entry)	Normally Open	No	No	0	0	Yes
ECHO		15	HP131-15	Fluorescent behind frnt desk & at gift shop entry	Normally Open	No	No	0	0	Yes
ECHO		16	SPARE-16	SPARE-16	Normally Open	No	No	0	0	Yes
ECHO		17	HP131-17	Fluor (recessed over Rub Lab window) by entry	Normally Open	No	No	0	0	Yes
ECHO		18	HP131-18	SPARE (Has Wires From Relay?)	Normally Open	No	No	0	0	Yes
ECHO		19	HP129-19	OLD Cafe House lights (cans)	Normally Open	No	No	0	0	Yes
ECHO		20	SPARE-20	SPARE-20	Normally Open	No	No	0	0	Yes
ECHO		21	HP129-21	Temp exh room Cans (East Side)	Normally Open	No	No	0	0	Yes
ECHO		22	HP129-22	Temp exh room- Cans (East Side)	Normally Open	No	No	0	0	Yes
ECHO		23	HP128-23	SPARE (Has Wires From Relay?)	Normally Open	No	No	0	0	Yes
ECHO		24	HP119-24	Temp exh rm - Cans (Recessed Entry)	Normally Open	No	No	0	0	Yes
ECHO		25	HP124-25	No Control - Part of 2-Pole Relay w/ #27	Normally Open	No	No	0	0	Yes
ECHO		26	HP126-26	No Control - Part of 2-Pole Relay w/ #28	Normally Open	No	No	0	0	Yes
ECHO		27	HP127-27	Floods(North Side) Parking Its(South Half)	Normally Open	No	No	0	0	Yes
ECHO		28	HP122-28	Parking lot lights (North Half)	Normally Open	No	No	0	0	Yes
ECHO		29	HP123-29	Bollards along Seawall by Inlet	Normally Open	No	No	0	0	Yes
ECHO		30	HP125-30	Bollards (North Side Entry)	Normally Open	No	No	0	0	Yes
ECHO		31	HP119-31	Parking lot lights (South Island) (Not Wired)	Normally Open	No	No	0	0	Yes
ECHO		32	HP121-32	Outdoor: West Wall Lights along water	Normally Open	No	No	0	0	Yes

Relay Settings Live Relay Status

Community Education



Building Climate Resilience

COMMUNITY COLLABORATION
RENDERS TROPICAL STORM "DONALD" IMPOTENT

CREATIVE ARTS PROGRAM CREDITED with BUILDING AWARENESS

COHESIVE RECREATION FARM FOREST
Landowners collaborate to "OWN the WATER"

Yesterday's TRAINING Program for Residents + Contractors a NATIONAL HUB

Take Flood Your Friend!

- Land Owners take down berms
- Farmers put ag lands under easements

"RIDGE to RIVER recognized as Unprecedented NATIONAL MODEL"

\$ CREATIVE COLLABORATION CREDITED \$ 25m in attracting funding results in \$100 million BENEFITS TO VALLEY

HEADLINE

NO NOGEY

STERLING

NO STORY
JOHNSON DOESN'T FLOOD IN

TOWNS ONLY