More Than Remote Site Management

(What we might be doing differently)

DENIS BARRIAULT

DIRECTOR OF ENGINEERING

THUNDER BAY, ONTARIO

NAB 2023

Dougall Media Transmitter Sites

< Nakina >

< Longlac >

Geraldton

< Beardmore >

< Mt. Baldy FE >

< Hornepayne >

< Neys FE >

< Neys NE >

< Marathon >

< White River >

< Atikokan >

< Kuusisto FE >

Mt. Paju

Hill St.

< Waverly FE >

Pigeon River

LAKE SUPERIOR

Mix of wired and SNMP Monitoring (VPN secured)

More Than Remote Site Management

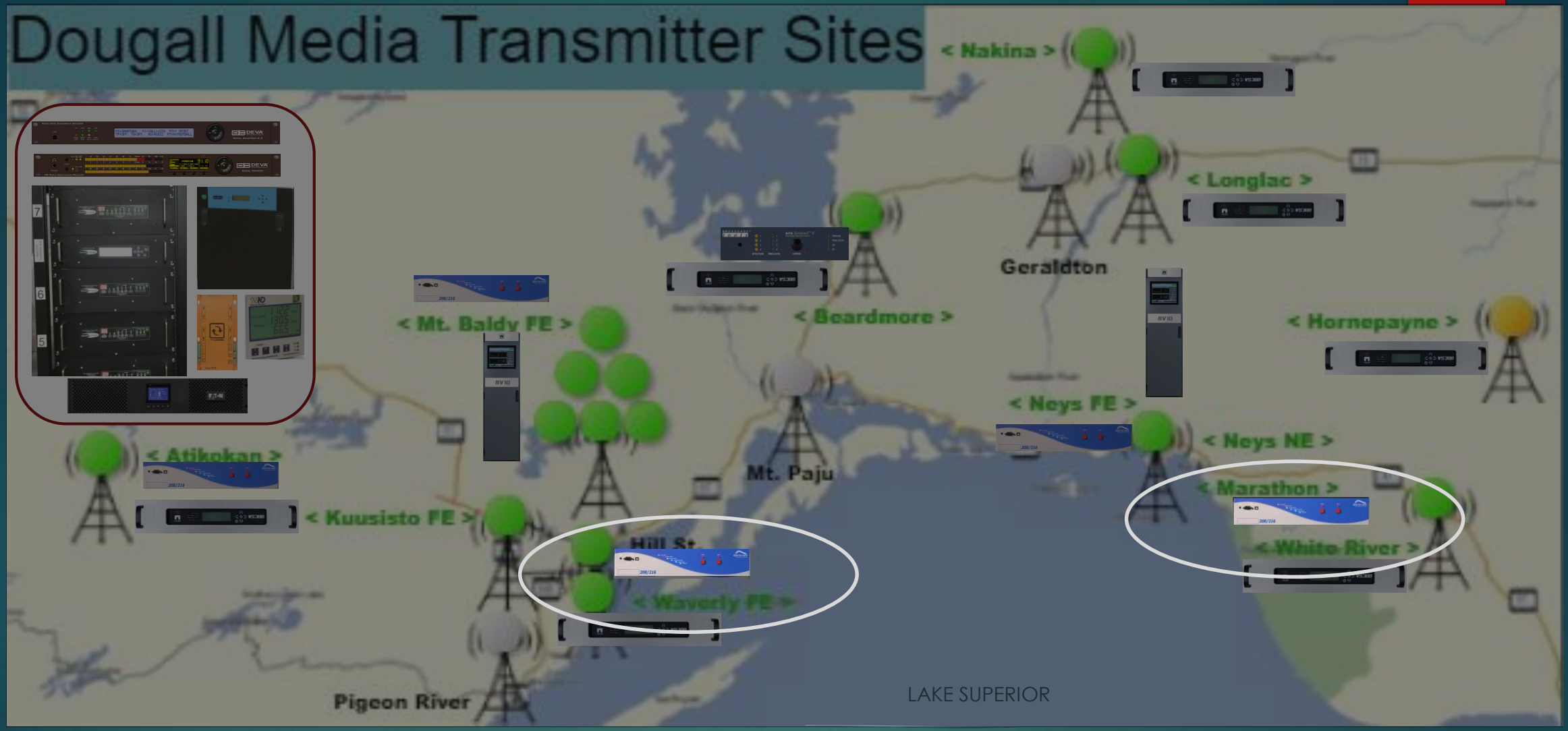
(What we might be doing differently)

NAB 2023

dex

dougallmedia

Dougall Media Transmitter Sites



Units in 2 studios

More Than Remote Site Management

(What we might be doing differently)

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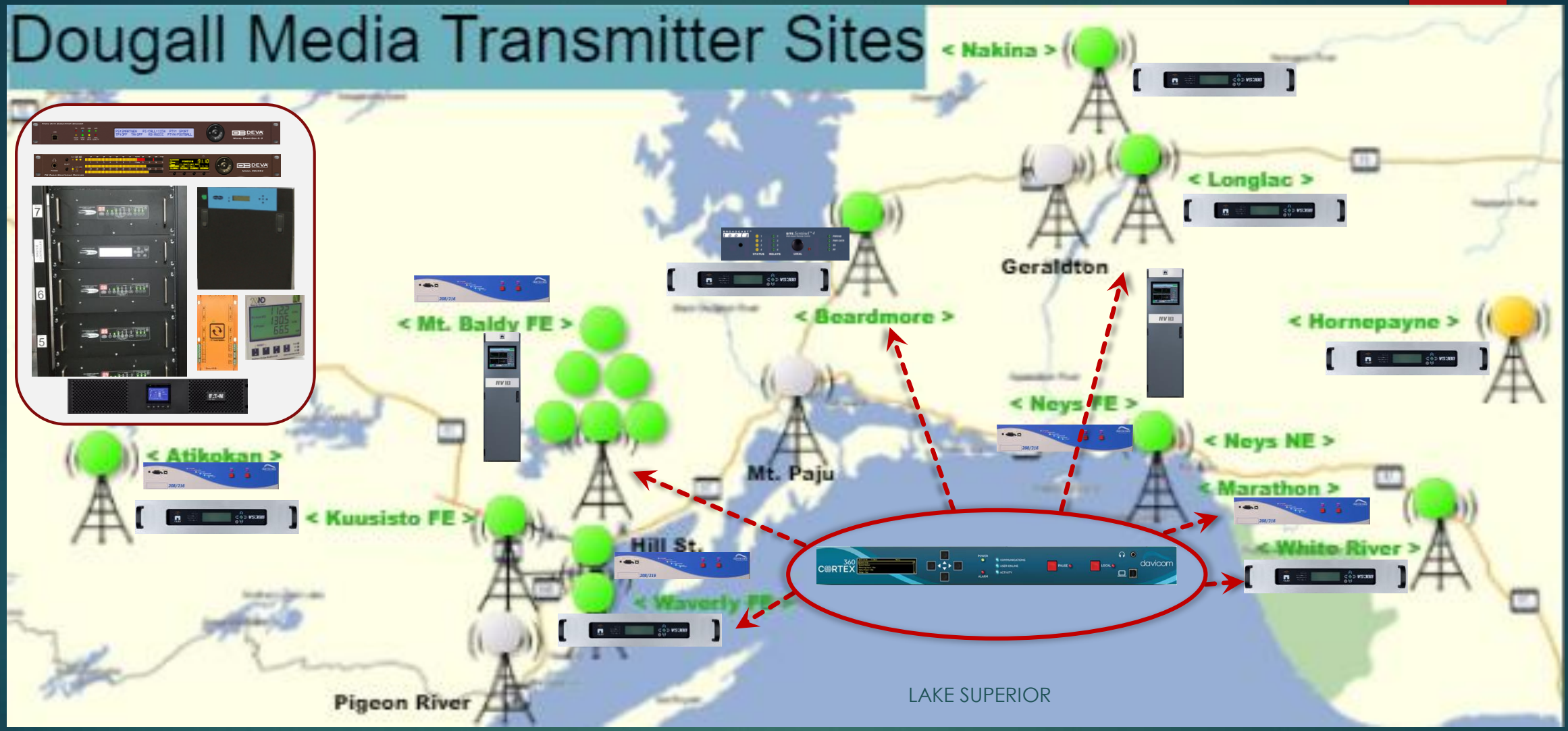
Dougall Media Transmitter Sites



Cortex has no wired I/O

More Than Remote Site Management

(What we might be doing differently)

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Cortex dashboard

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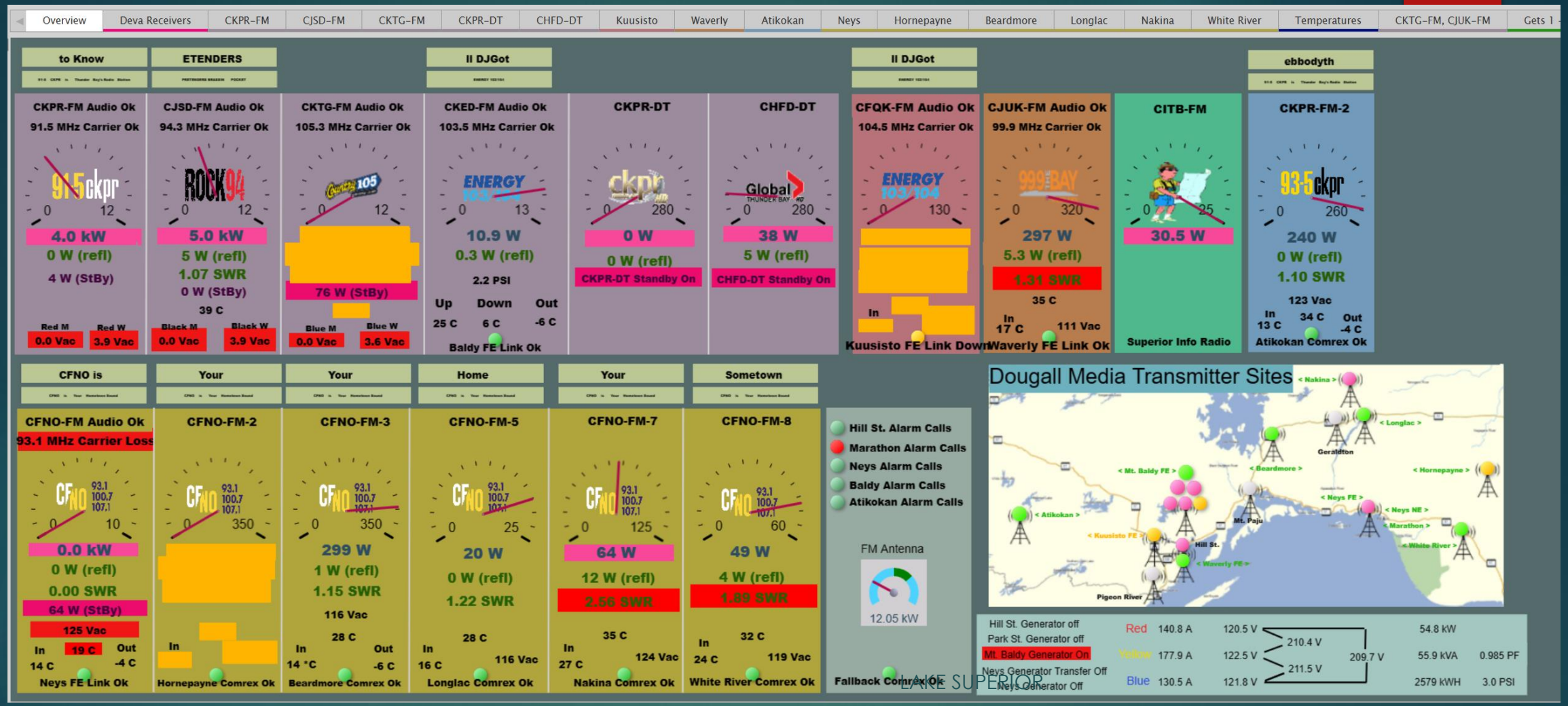
More Than Remote Site Management

(What we might be doing differently)



Cortex dashboard

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More Than Remote Site Management

(What we might be doing differently)

Cortex dashboard

NAB 2023

More Than Remote Site Management

(What we might be doing differently)

Cortex dashboard, 22 workspaces

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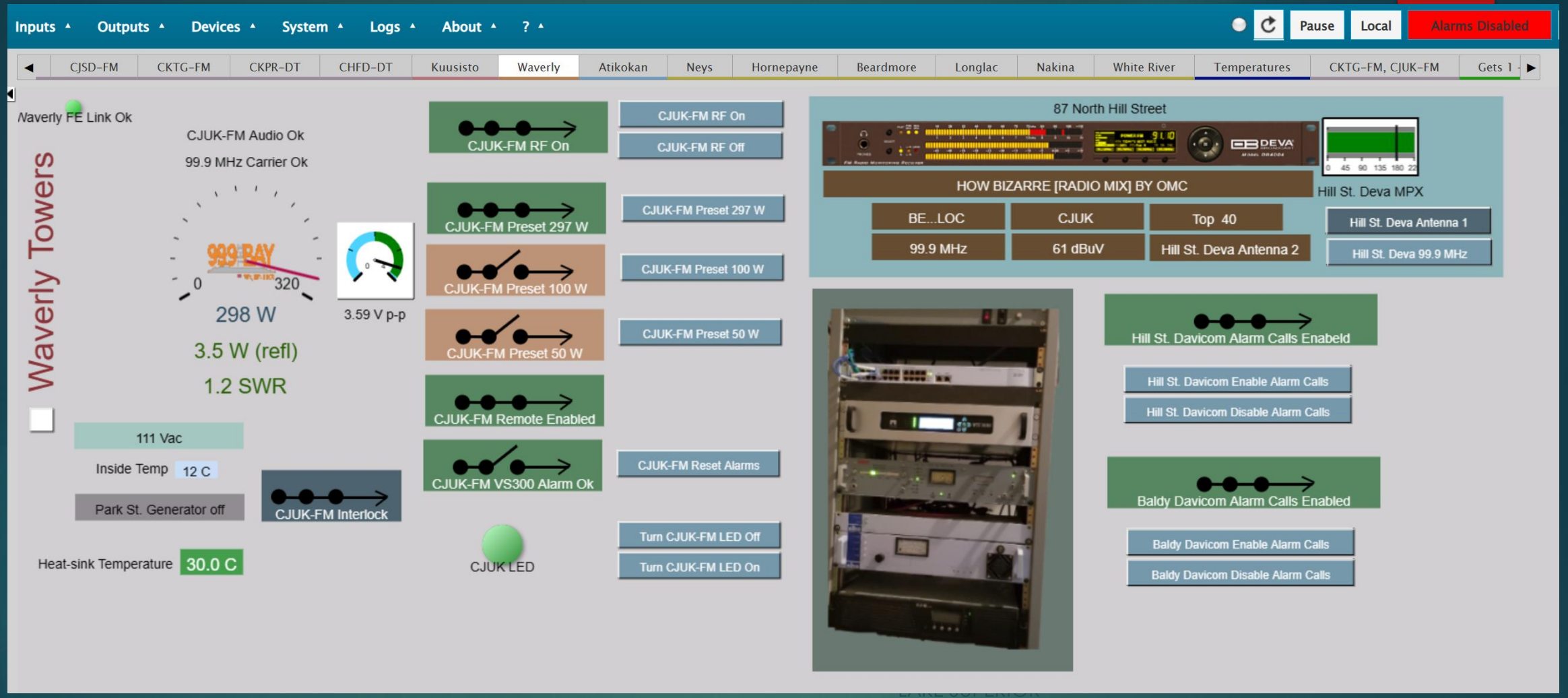
More Than Remote Site Management

(What we might be doing differently)



Cortex Site Control

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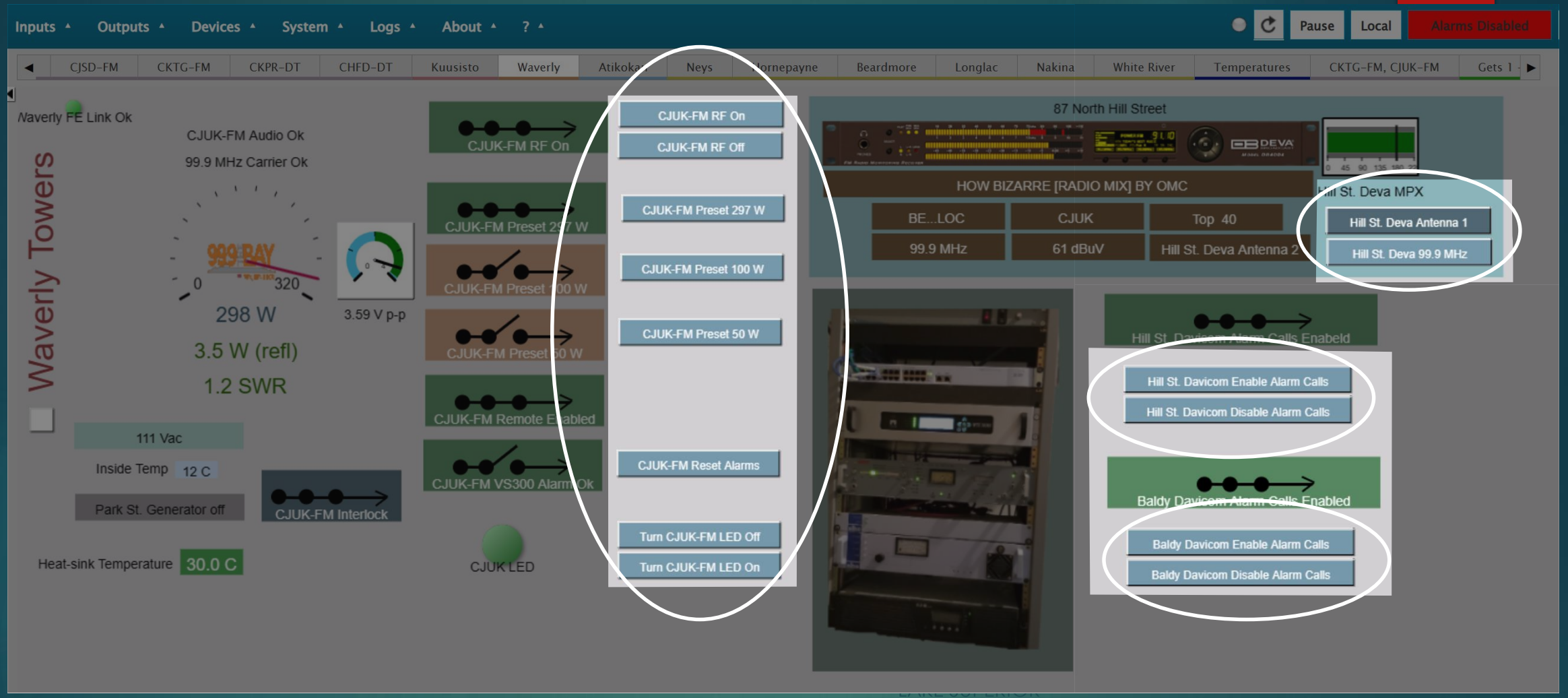
More Than Remote Site Management

(What we might be doing differently)

dougallmedia



Cortex Site Control

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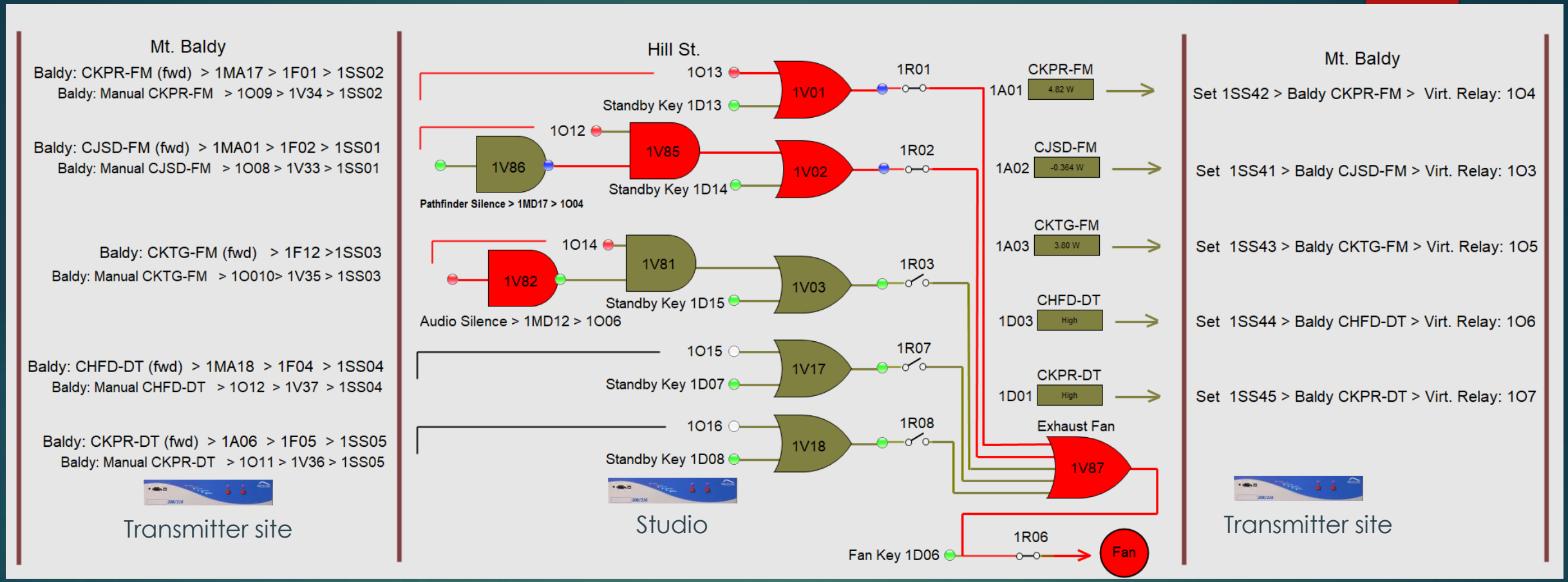
More Than Remote Site Management

(What we might be doing differently)



Standby Control

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More Than Remote Site Management

(What we might be doing differently)

dex

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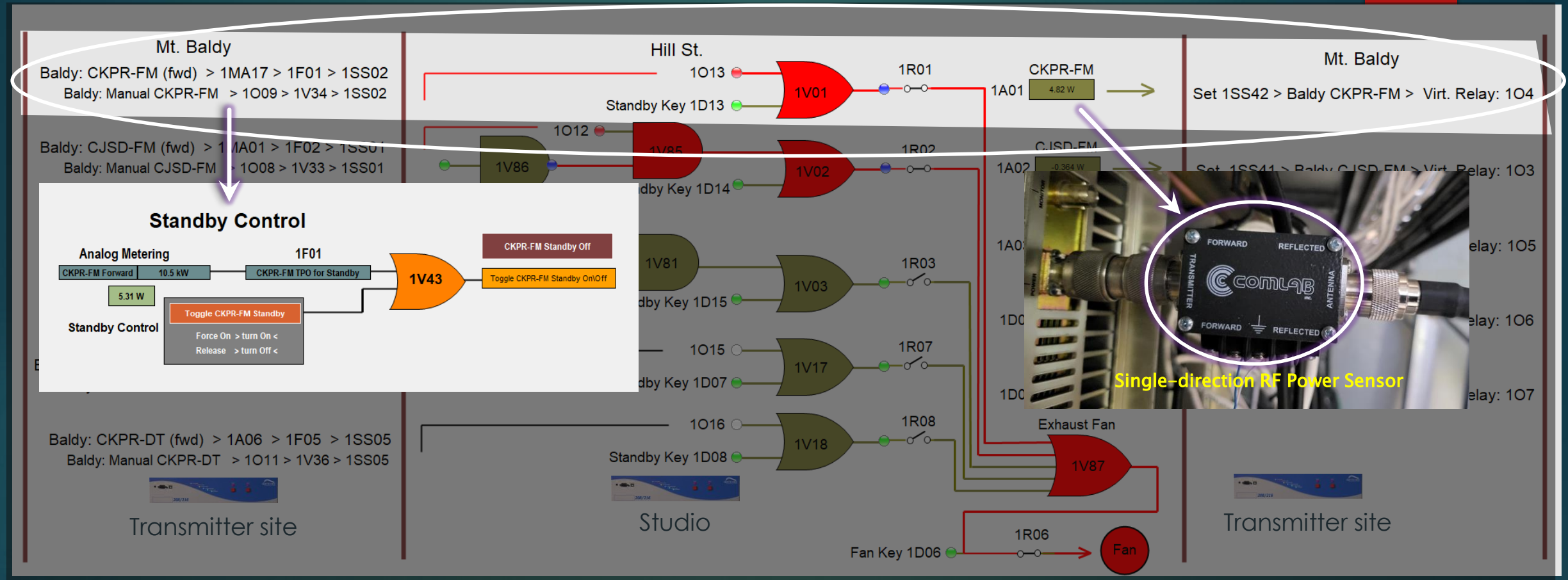

CKPR-FM Standby Control

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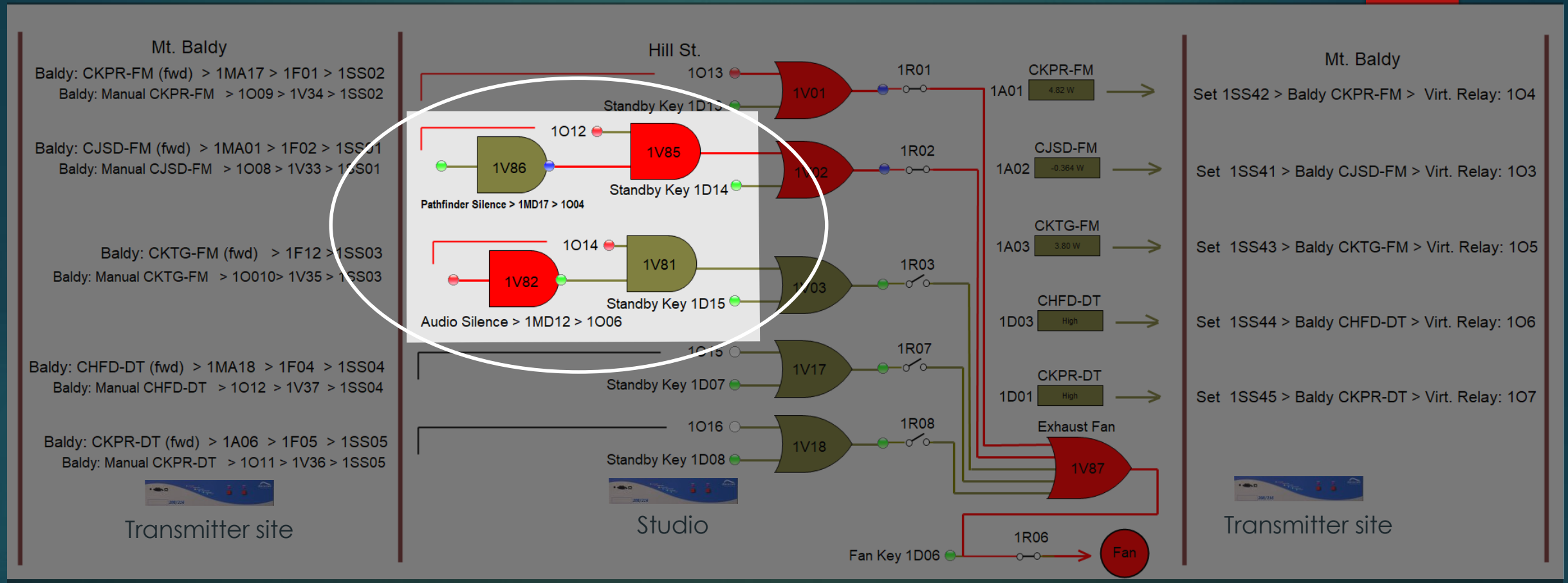
More Than Remote Site Management

(What we might be doing differently)

dex

dougallmedia



Standby Control: Inhibit due to audio silence

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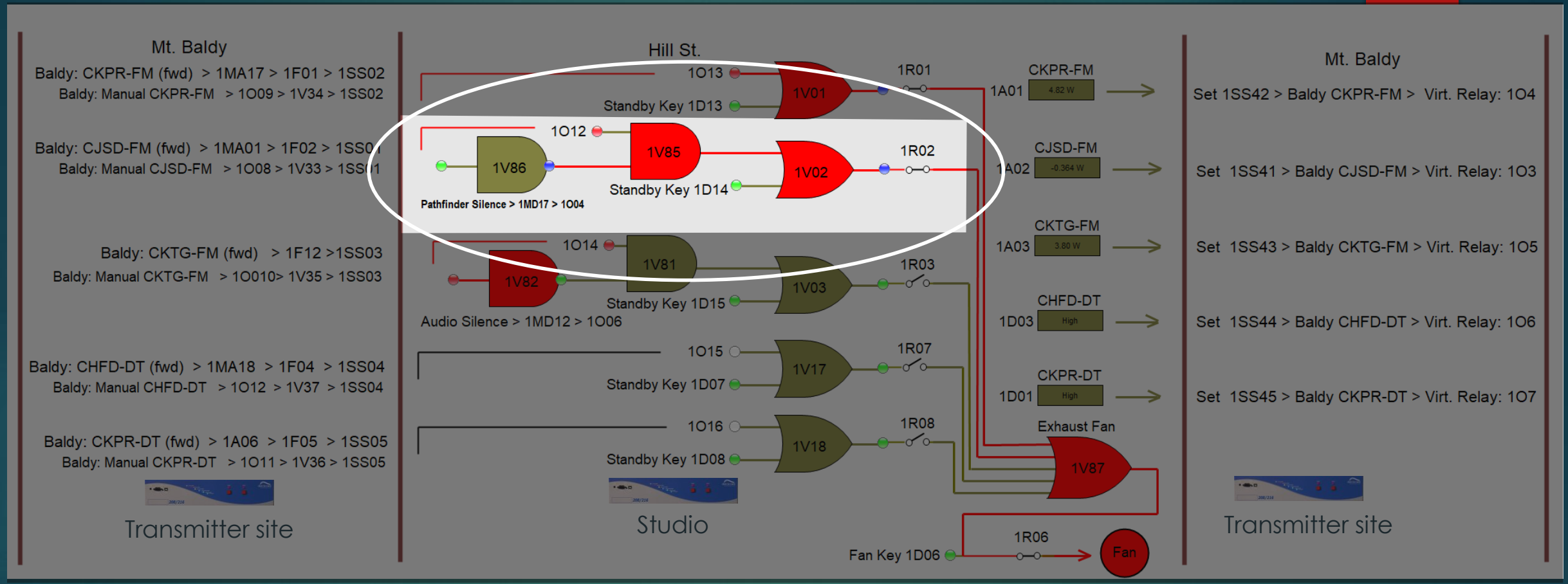
More Than Remote Site Management

(What we might be doing differently)

dex

dougallmedia



CJSD-FM Standby Control: Inhibit due to audio silence

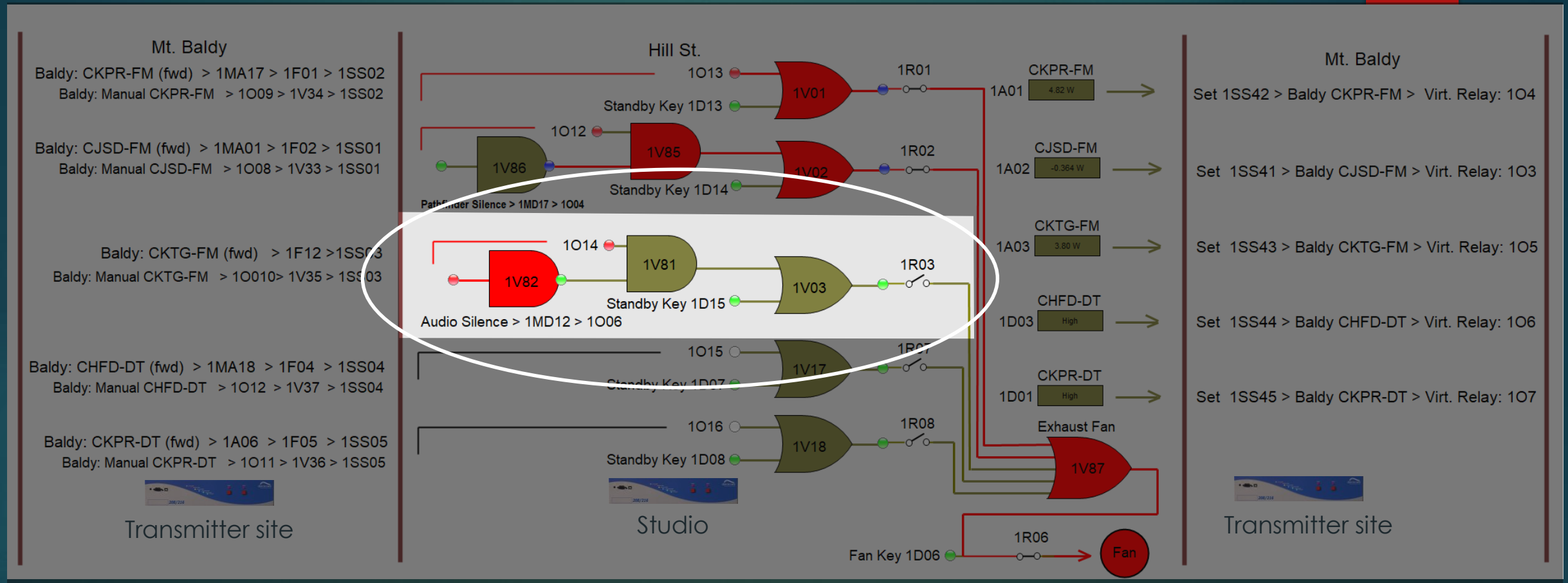
NAB 2023

More Than Remote Site Management

(What we might be doing differently)

dex

dougallmedia



CKTG-FM Standby Control: Inhibit due to audio silence

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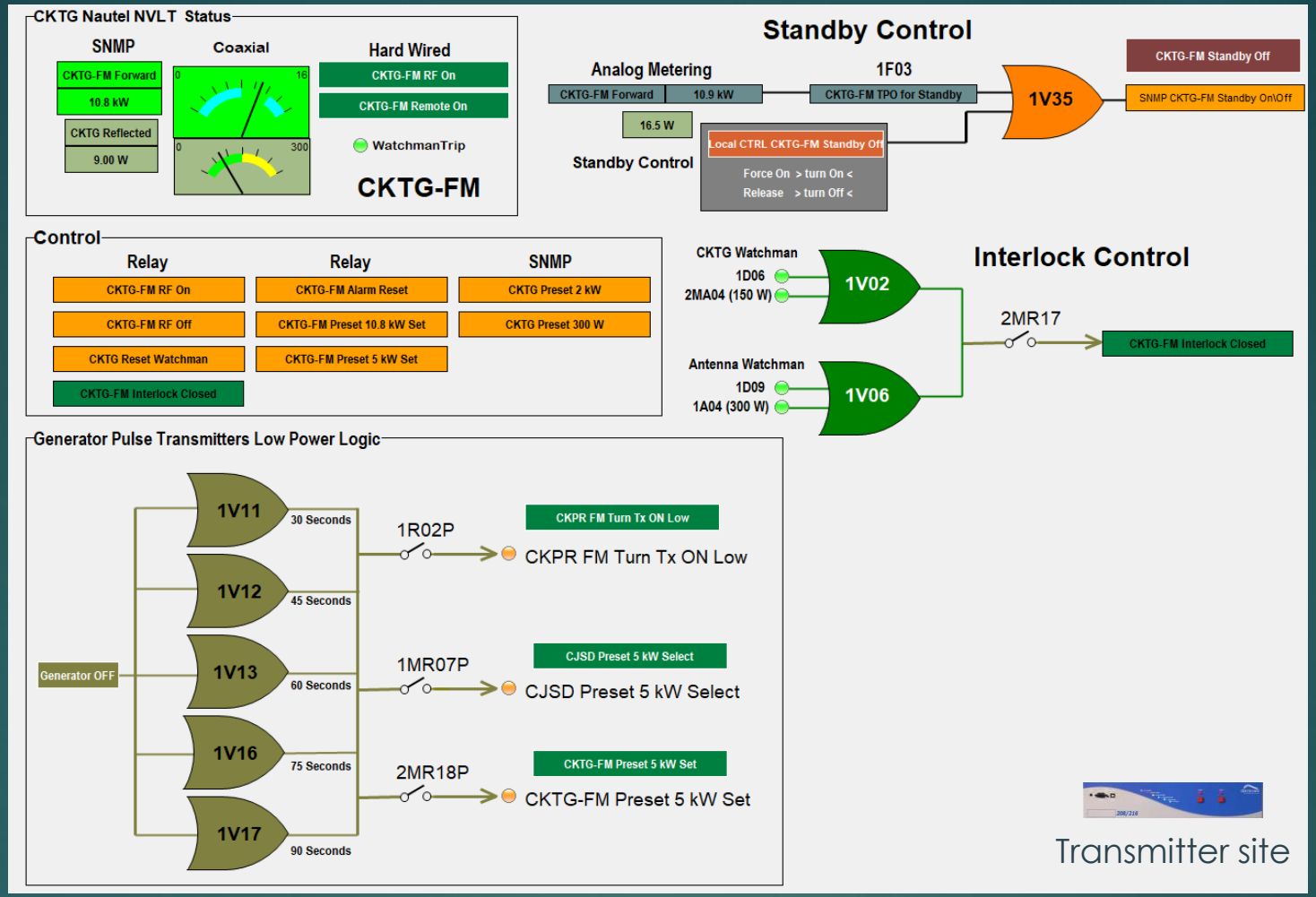
More Than Remote Site Management

(What we might be doing differently)

dex

dougallmedia



Typical transmitter control/monitoring

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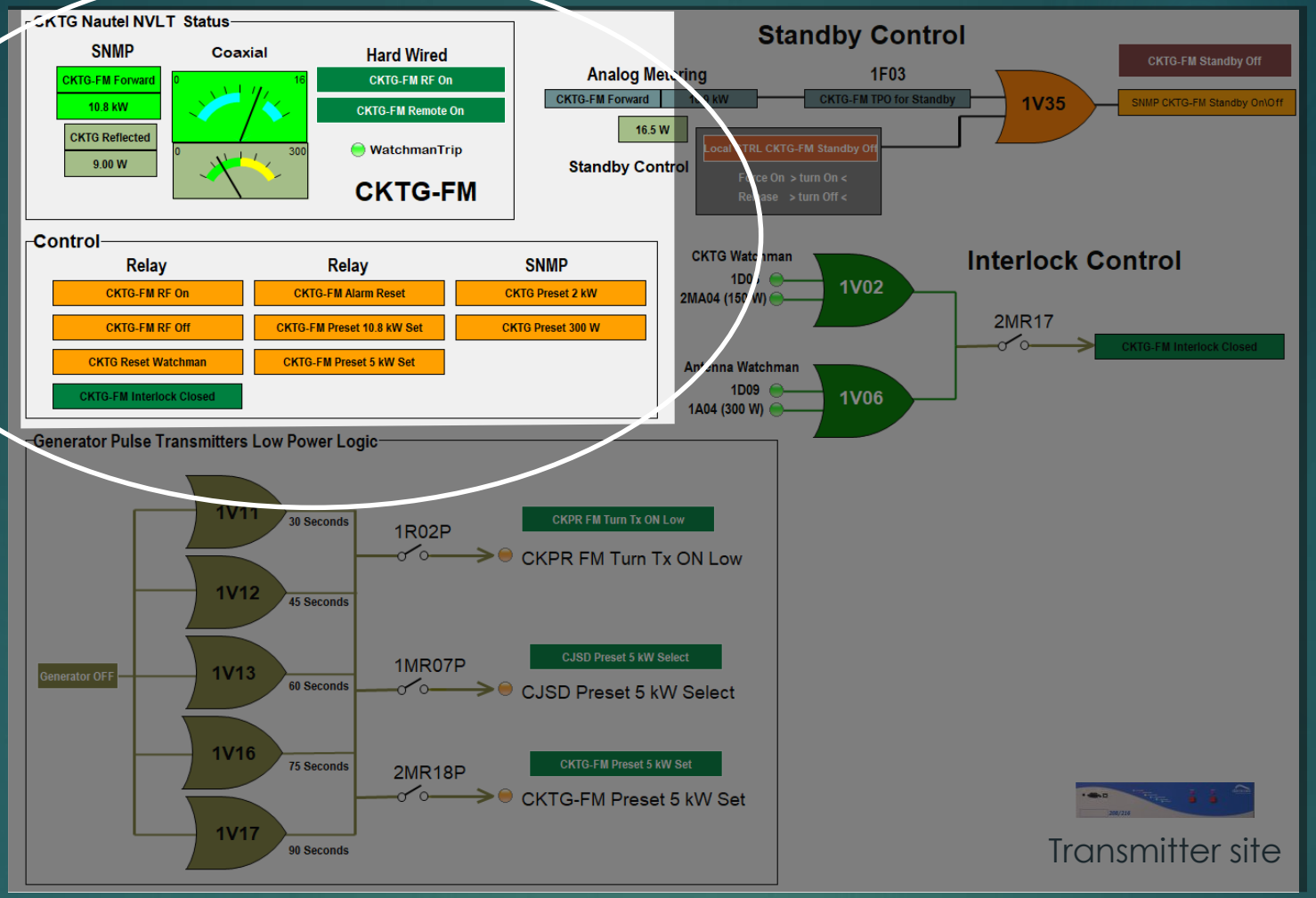
More Than Remote Site Management

(What we might be doing differently)



Mix SNMP and Hard wire controls

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More Than Remote Site Management

(What we might be doing differently)

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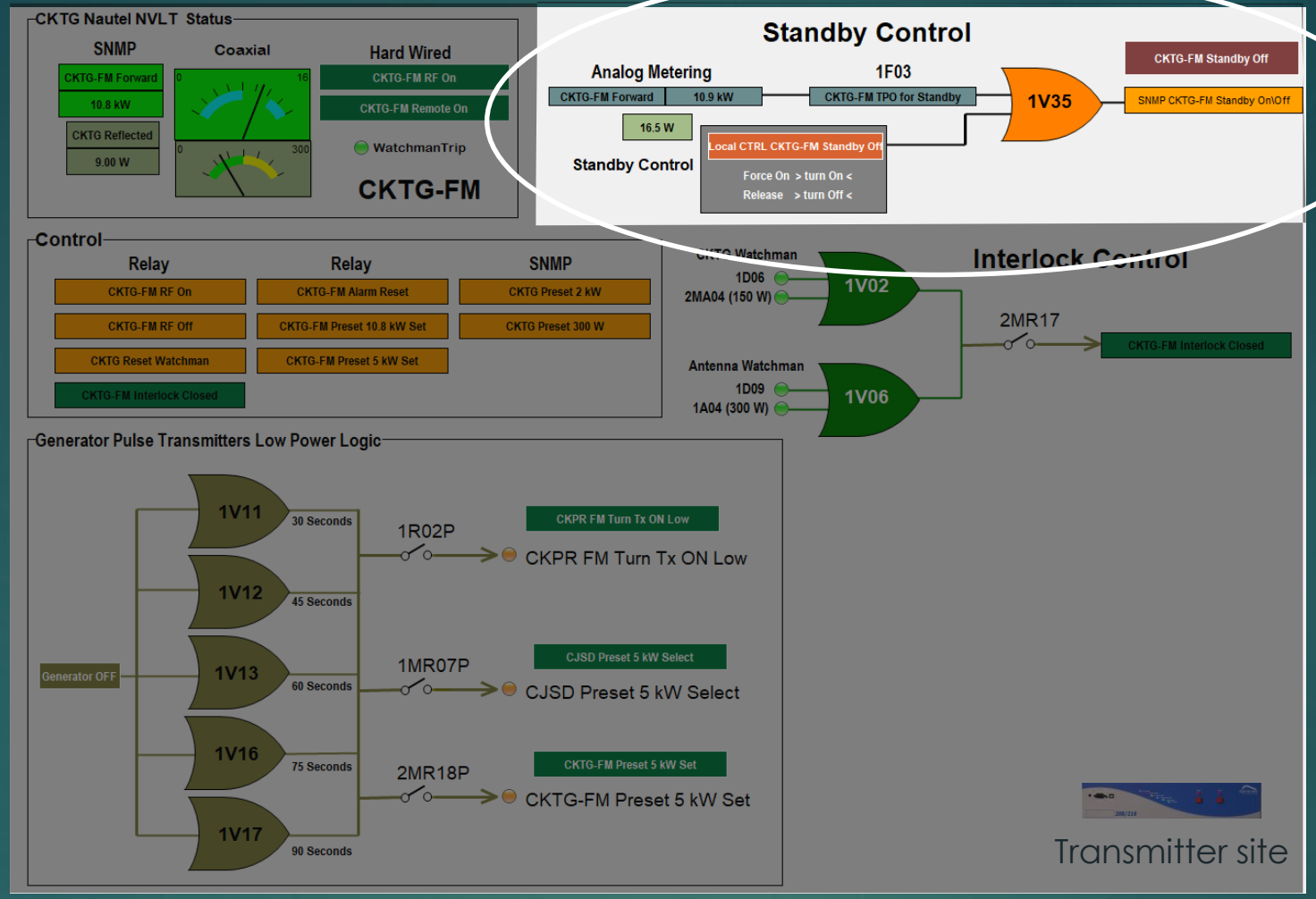

Typical transmitter control/monitoring: Turn Standby on

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More Than Remote Site Management

(What we might be doing differently)

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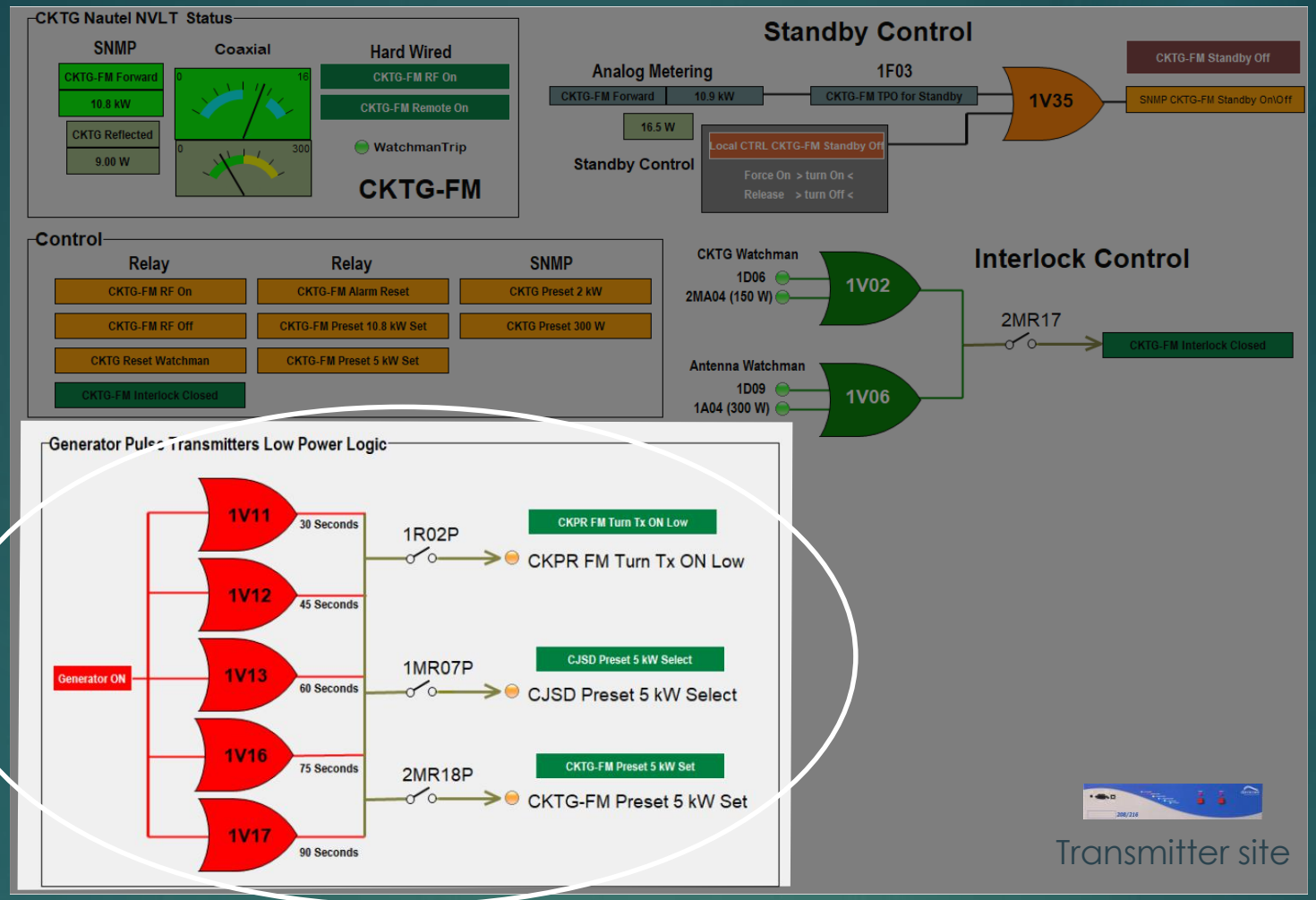

Typical transmitter control/monitoring: Generator Delay

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More Than Remote Site Management

(What we might be doing differently)

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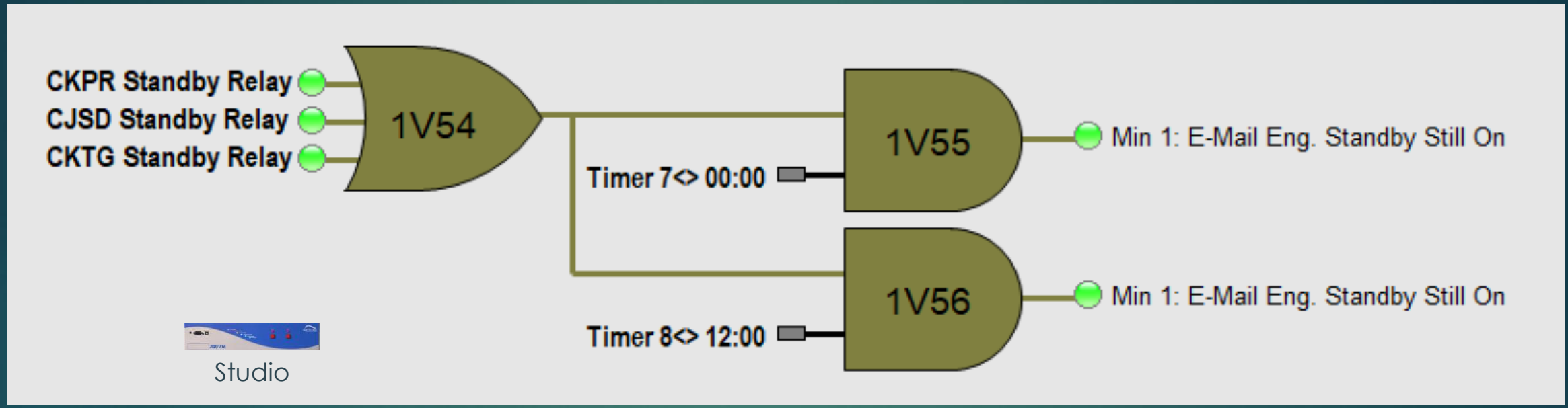

Standby Still "On" notification

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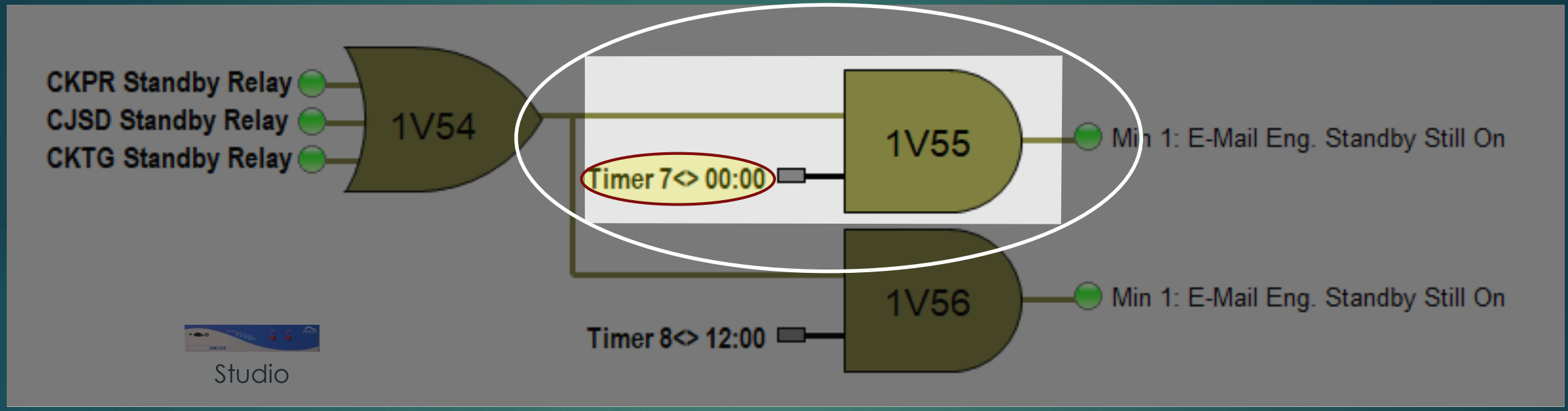
More Than Remote Site Management

(What we might be doing differently)

dex

dougallmedia



Notification that a standby is still "On"

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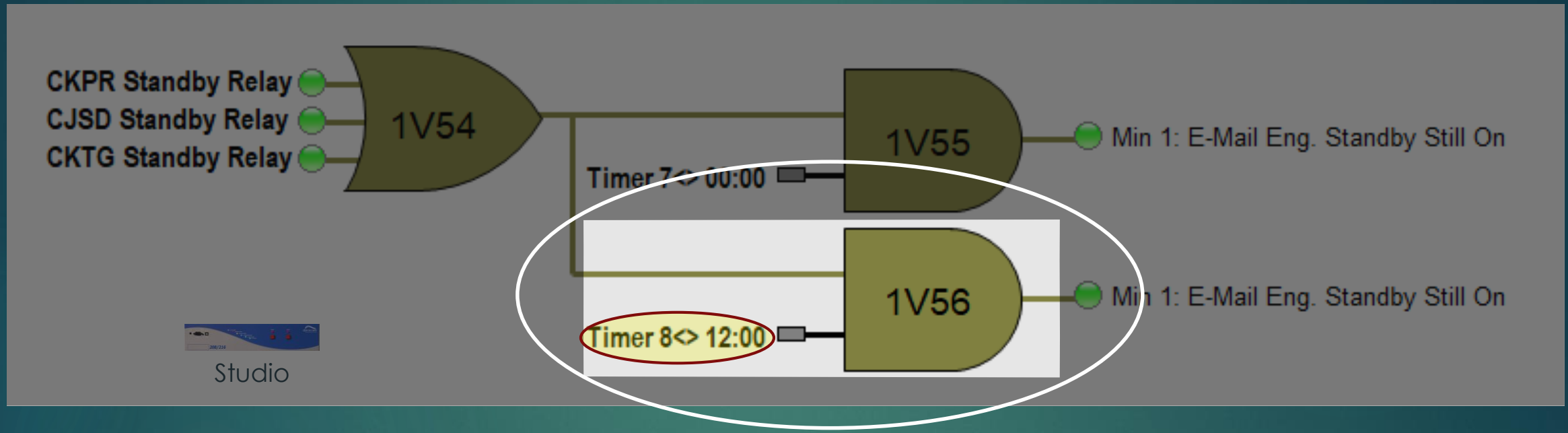
More Than Remote Site Management

(What we might be doing differently)

dex

dougallmedia



Notification that a standby is still "On"

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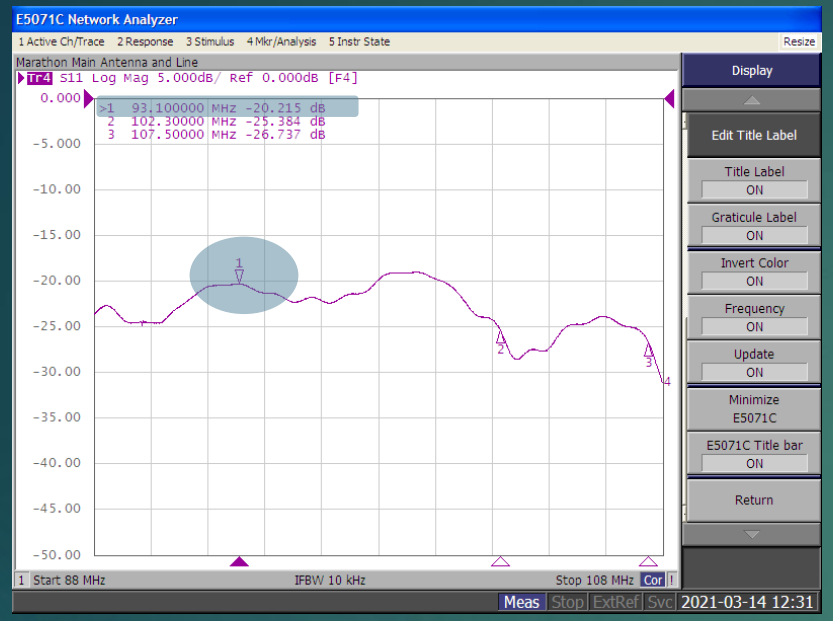
More Than Remote Site Management

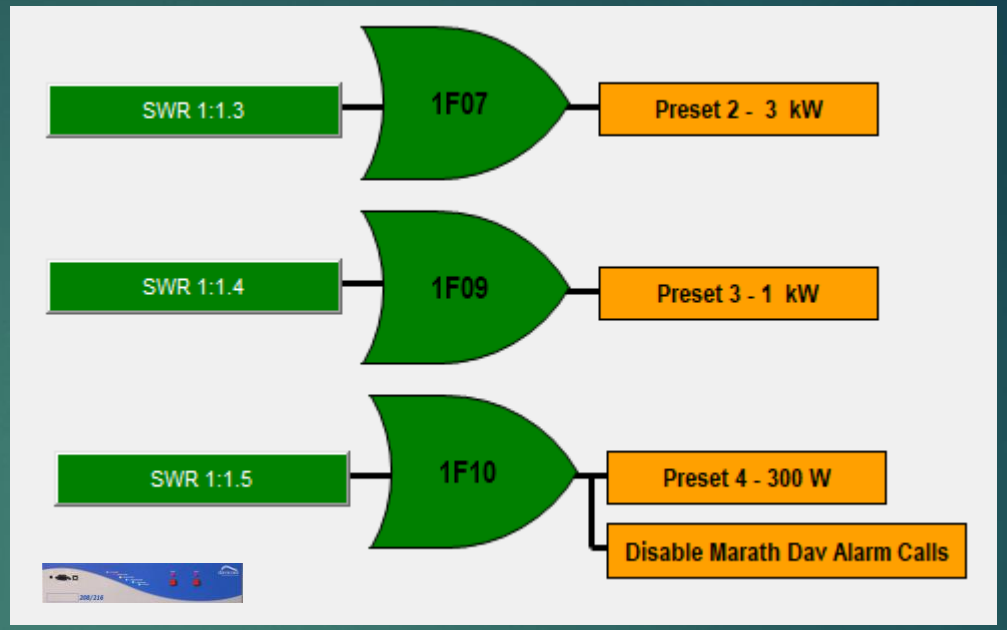
(What we might be doing differently)

dex

dougallmedia



1:1.22, 20 db
81.5 W reflected
49.5 kW ERP



1:1.3, 17.6 db
(60 Sec delay)
54 W reflected
18.1 kW ERP

1:1.4, 15.5 db
(30 Sec delay)
28 W reflected
5.9 kW ERP

1:1.5, 14 db
(20 Sec delay)
12 W reflected
1.7 kW ERP

Automatic Foldback, no callouts

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More Than Remote Site Management

(What we might be doing differently)

dex

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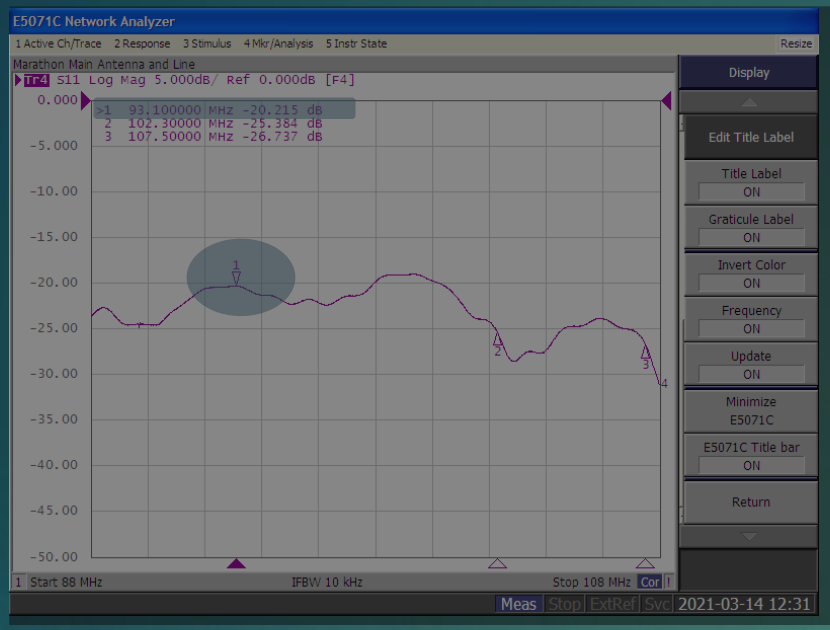
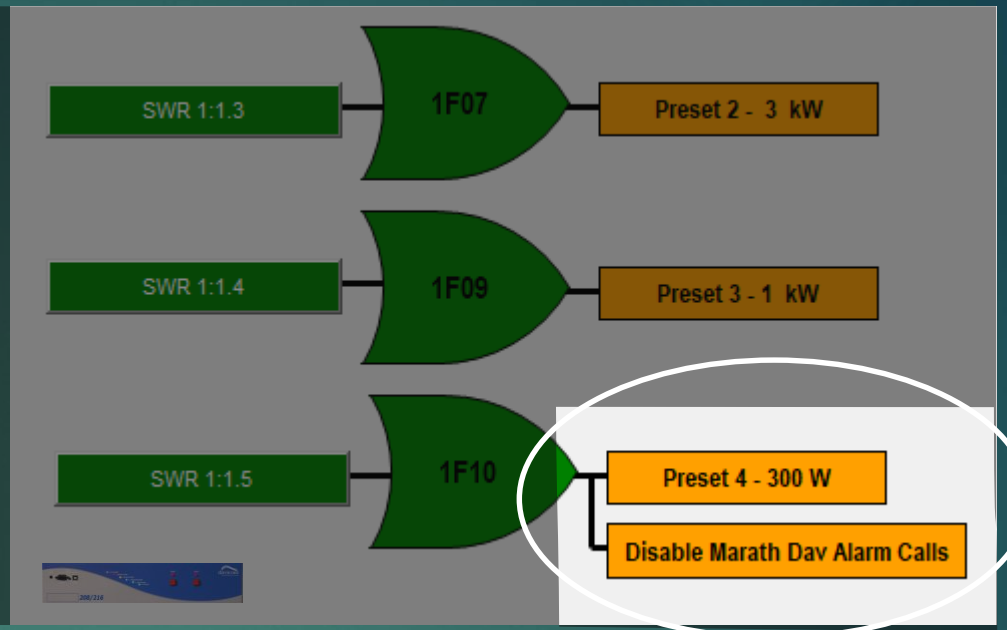


1:1.22, 20 db
81.5 W reflected
49.5 kW ERP



1:1.3, 17.6 db
(60 Sec delay)
54 W reflected
18.1 kW ERP

1:1.4, 15.5 db
(30 Sec delay)
28 W reflected
5.9 kW ERP

1:1.5, 14 db
(20 Sec delay)
12 W reflected
1.7 kW ERP

Foldback, Disable Alarm Calls

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More Than Remote Site Management

(What we might be doing differently)

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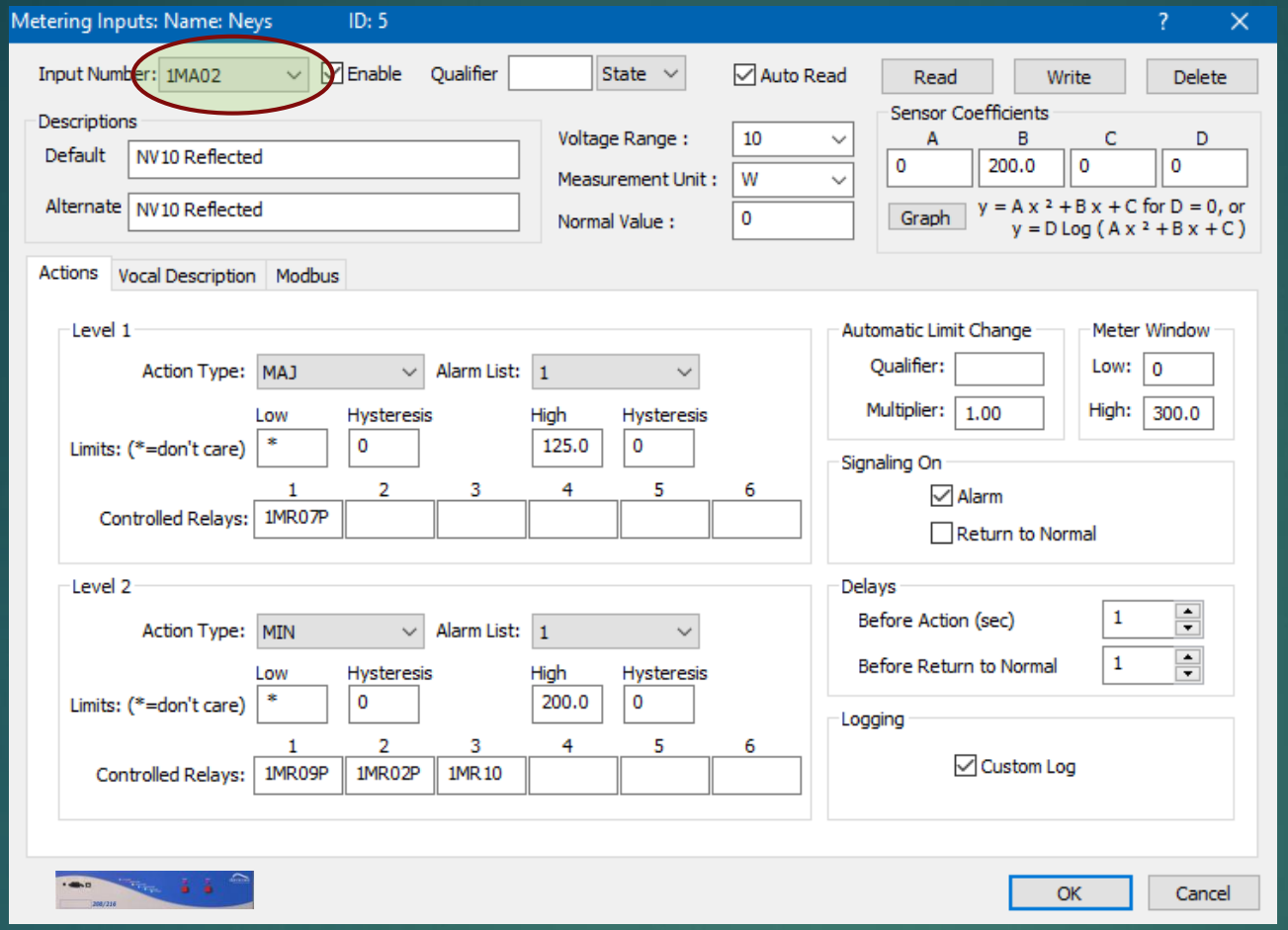

Analog – Reflection protection

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More Than Remote Site Management

(What we might be doing differently)

dex

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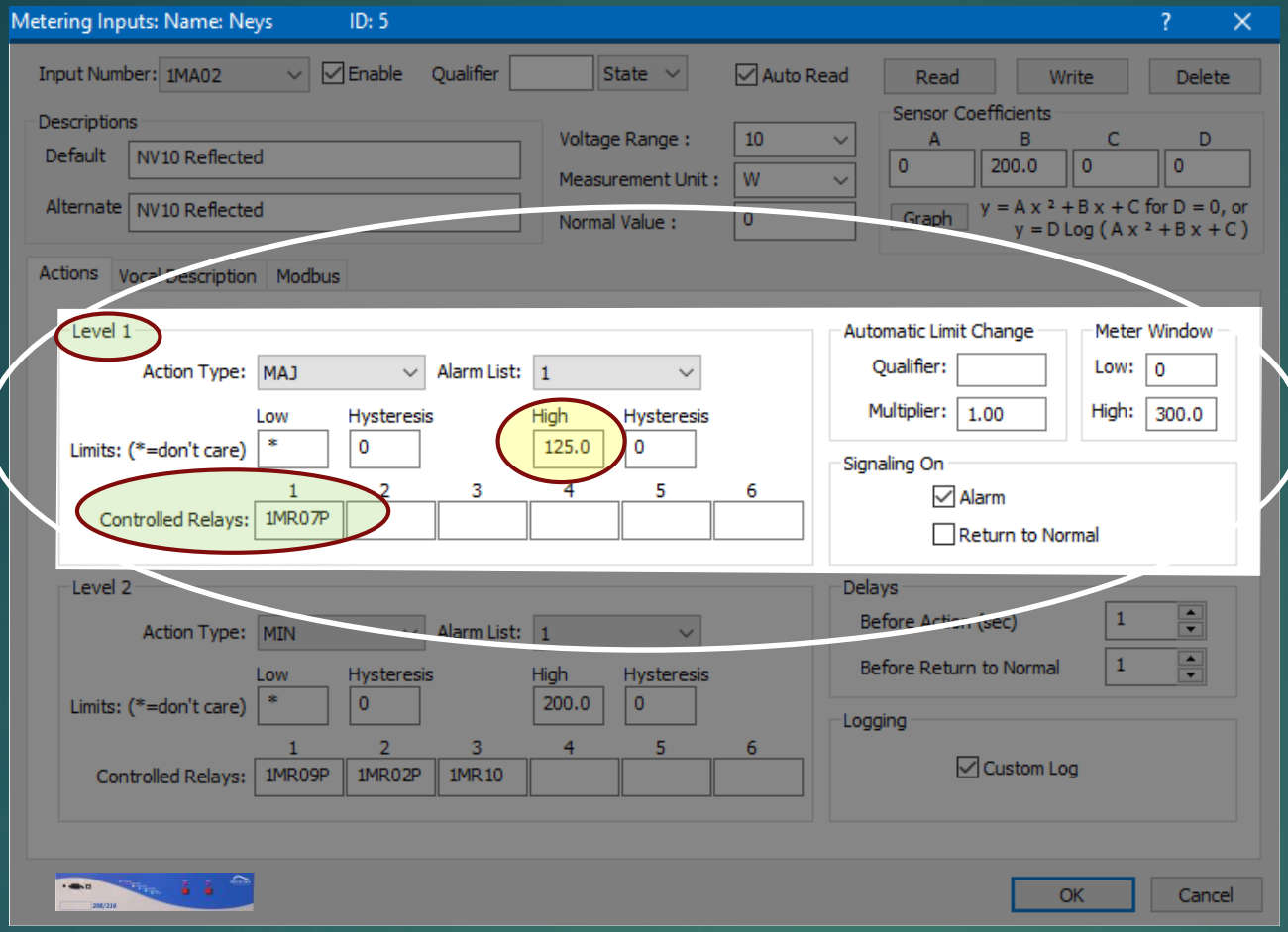

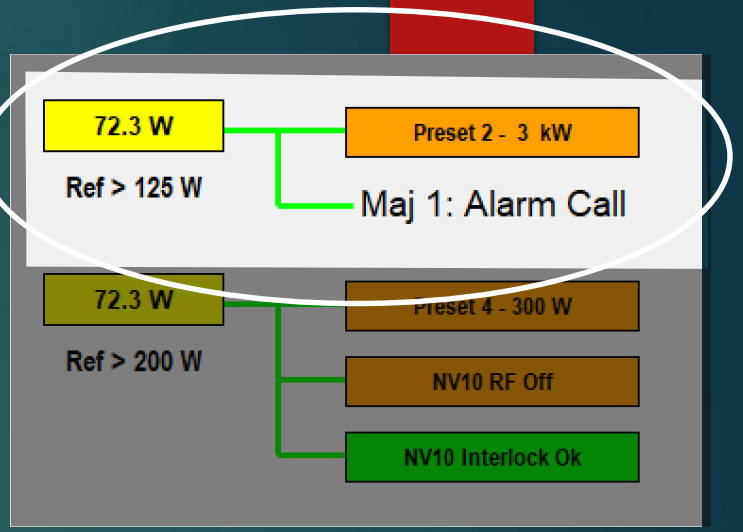

Analog – Reflection protection, Level 1

Level 1: **Major 1**

- Callout
- Preset 2, 3 kW TPO

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More Than Remote Site Management

(What we might be doing differently)

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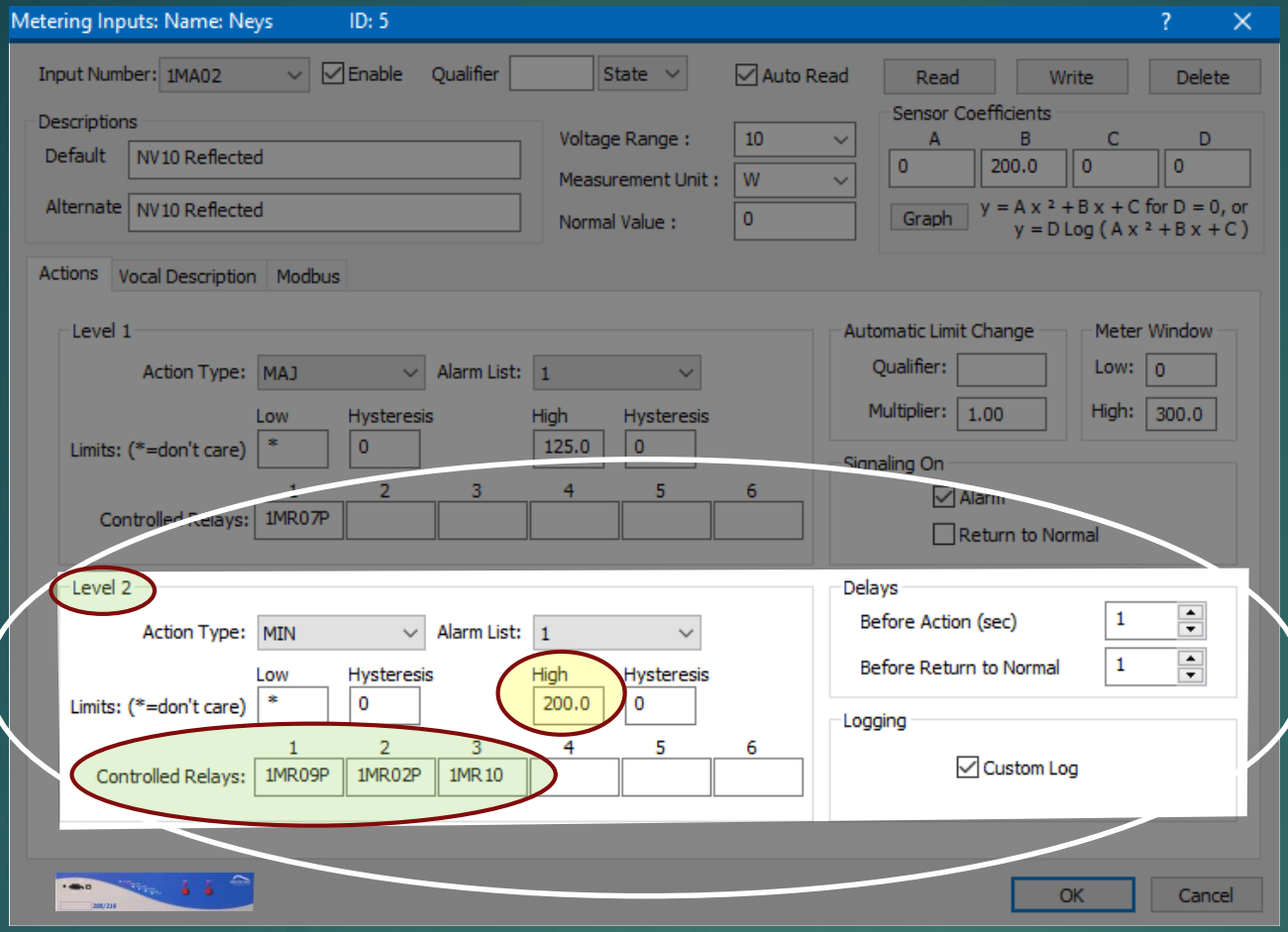

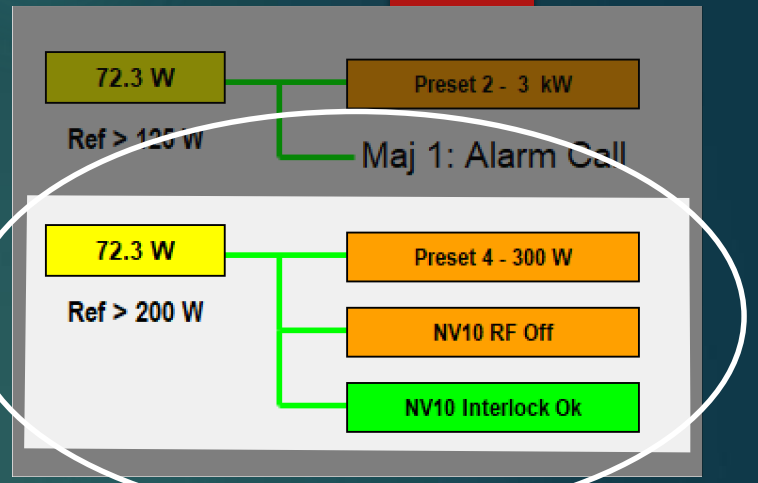

Level 2: Min 1

- Pulse 300 W TPO
- Pulse RF Off
- Open Interlock

Analog – Reflection protection, Level 2

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More Than Remote Site Management

(What we might be doing differently)

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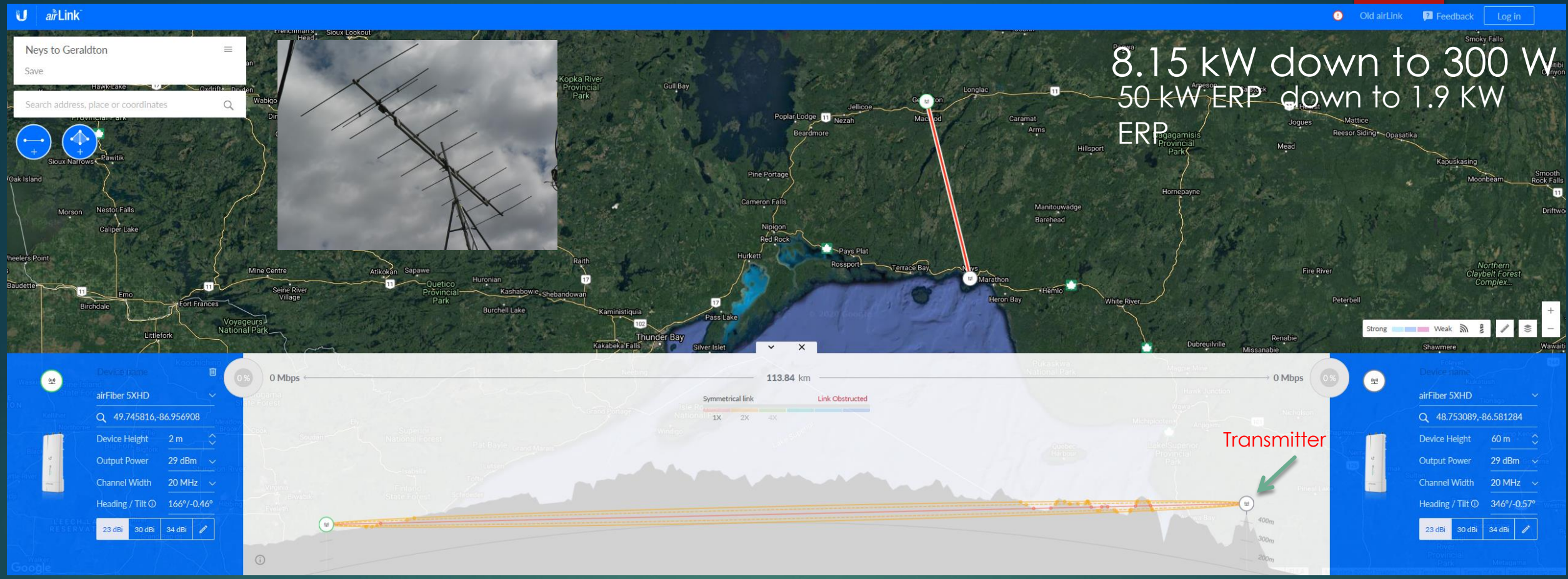

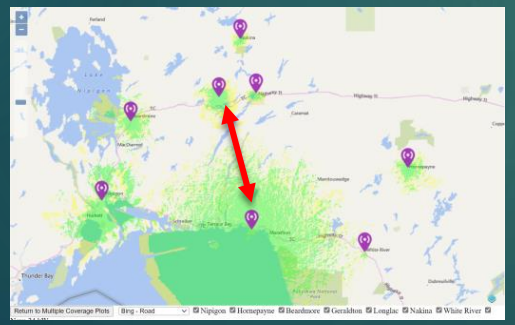

https://ispdesign.ui.com/#
https://support.nautel.com/rf-toolkit/radio-coverage-tool/

Receivable signal 114 km (71 miles) @ 300 TPO

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More Than Remote Site Management

(What we might be doing differently)

dex

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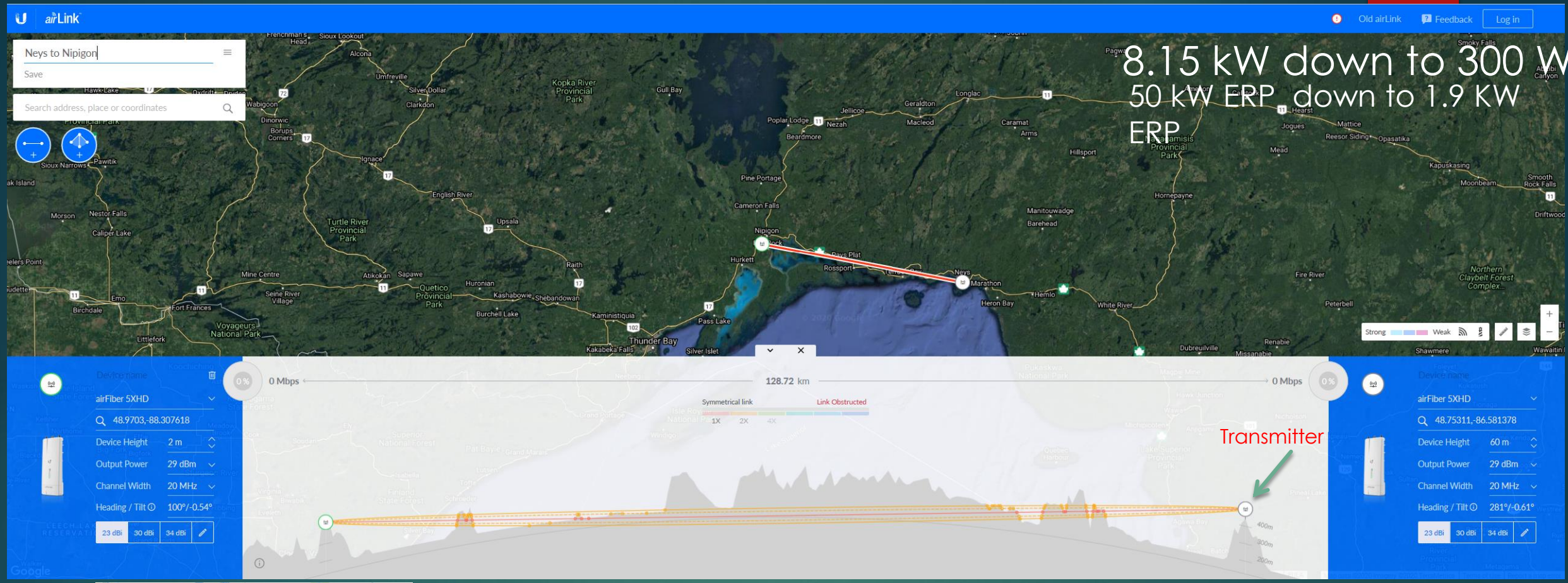

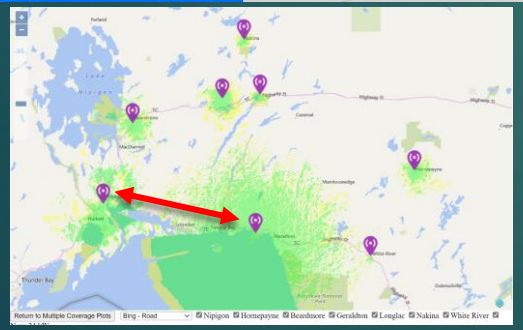

https://ispdesign.ui.com/#
https://support.nautel.com/rf-toolkit/radio-coverage-tool/

Receivable signal 129 km (80 miles) @ 300 TPO

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More Than Remote Site Management

(What we might be doing differently)

dex

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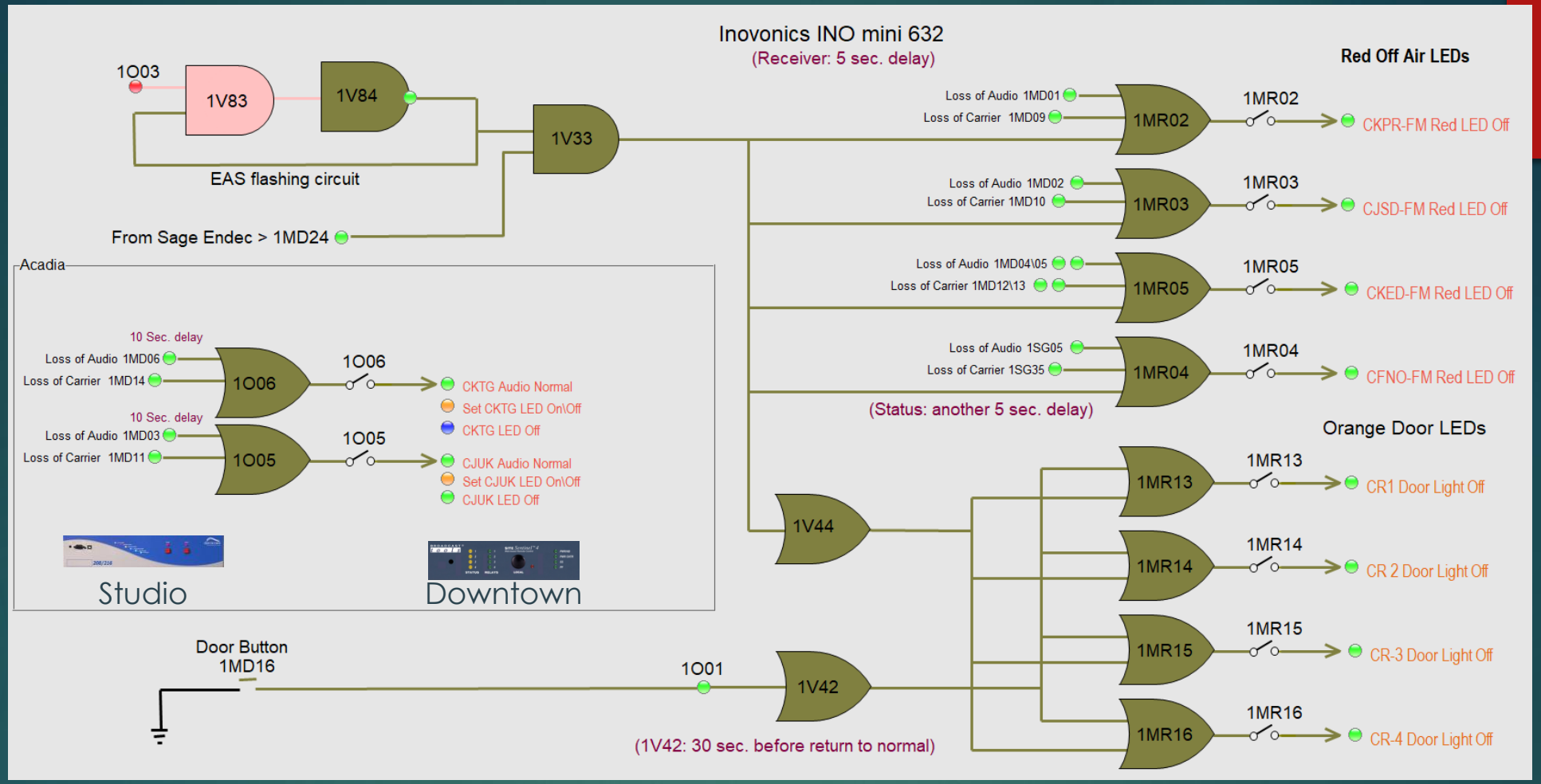


Control Room LEDs

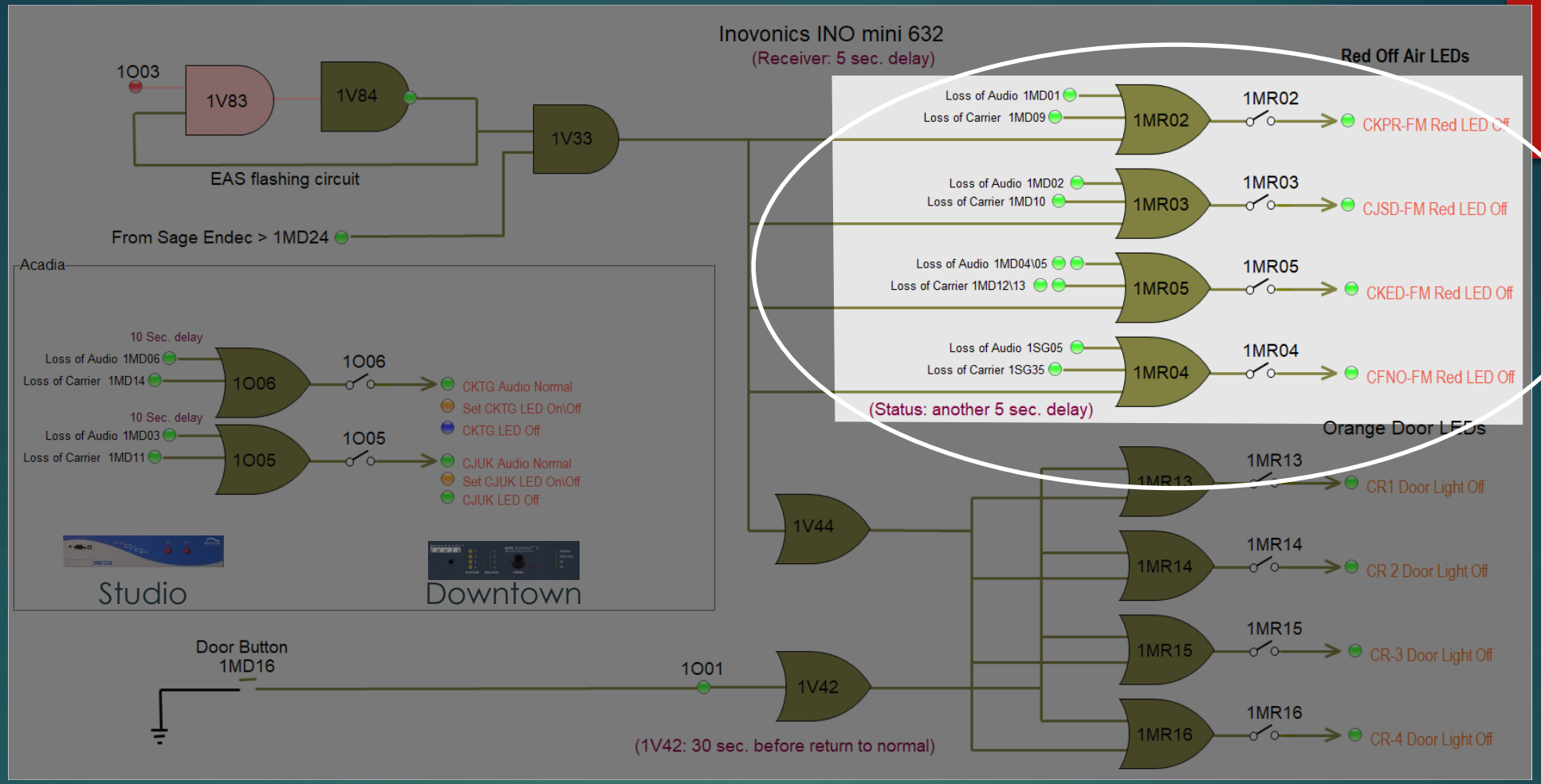
NAB 2023

More Than Remote Site Management

(What we might be doing differently)

dex

dougallmedia



Control Room LEDs: Audio Silence

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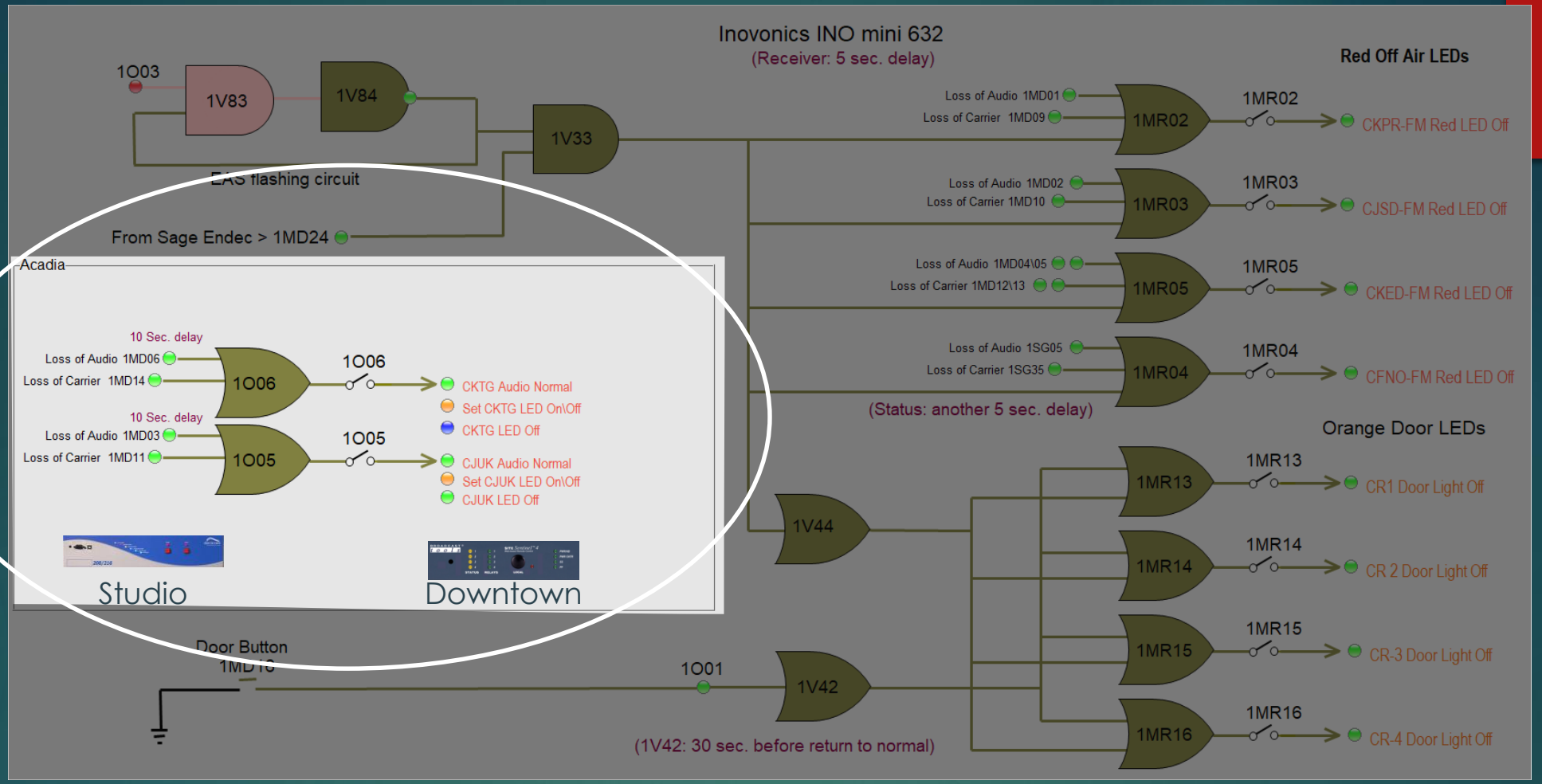
More Than Remote Site Management

(What we might be doing differently)

dex

dougallmedia



Control Room LEDs: Sets Broadcast Tools via SNMP downtown

NAB 2023

More Than Remote Site Management

(What we might be doing differently)

dex

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NAB 2023

More Than Remote Site Management

(What we might be doing differently)

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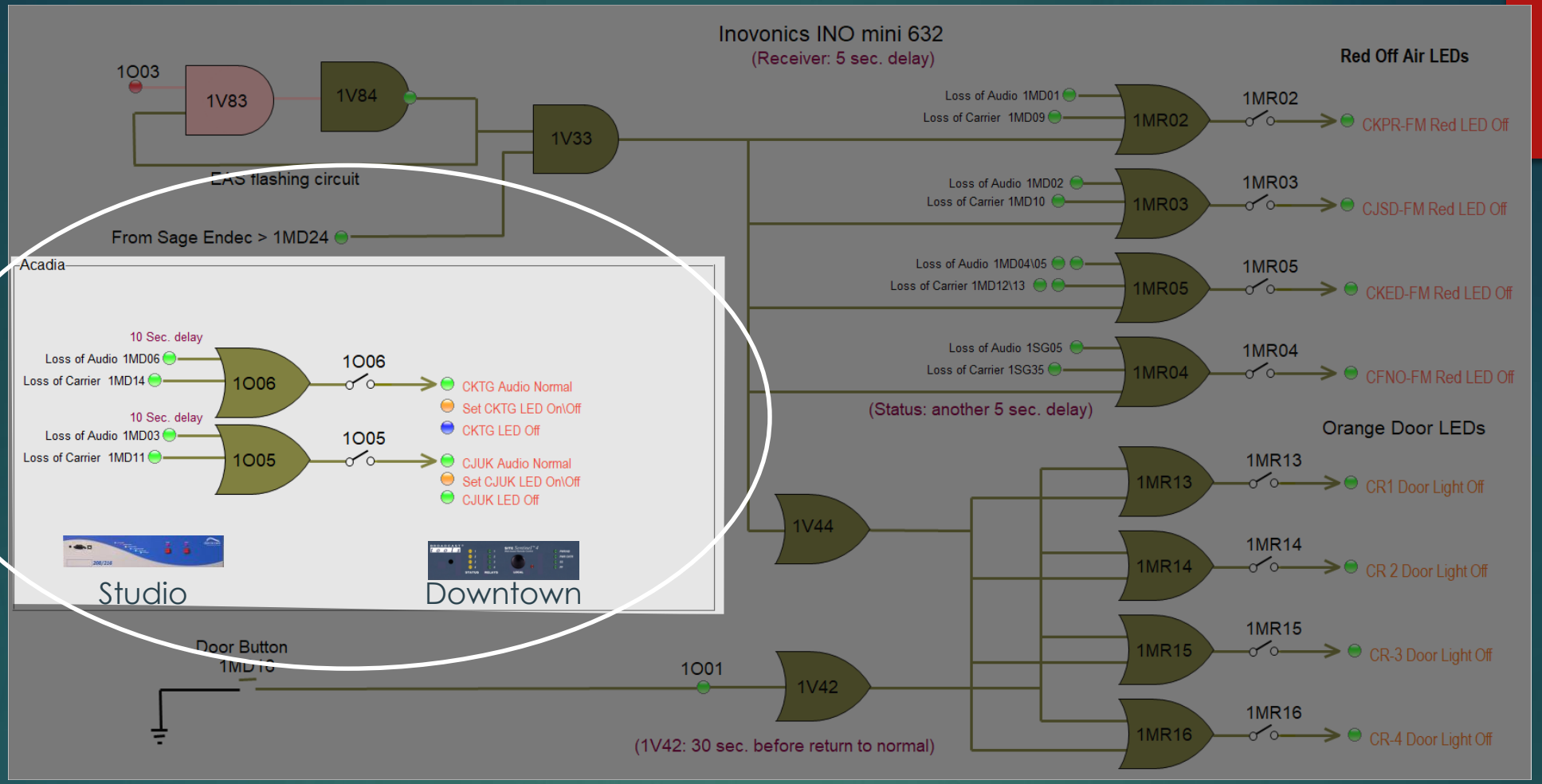

Control Room LEDs: Sets Broadcast Tools via SNMP downtown

NAB 2023

More Than Remote Site Management

(What we might be doing differently)

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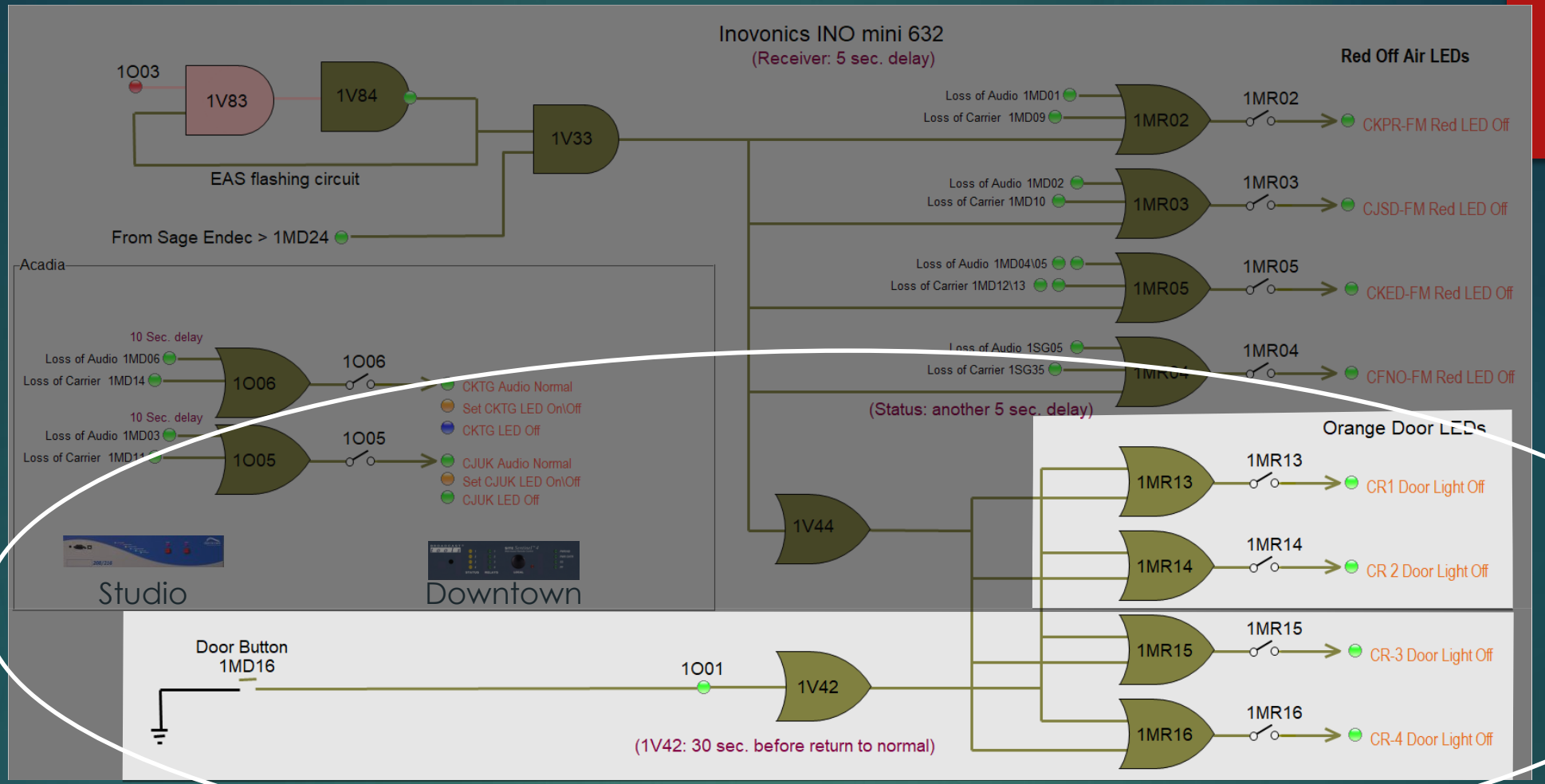

Control Room LEDs: Door button pressed

NAB 2023

More Than Remote Site Management

(What we might be doing differently)

dex

dougallmedia

NAB 2023

More Than Remote Site Management

(What we might be doing differently)

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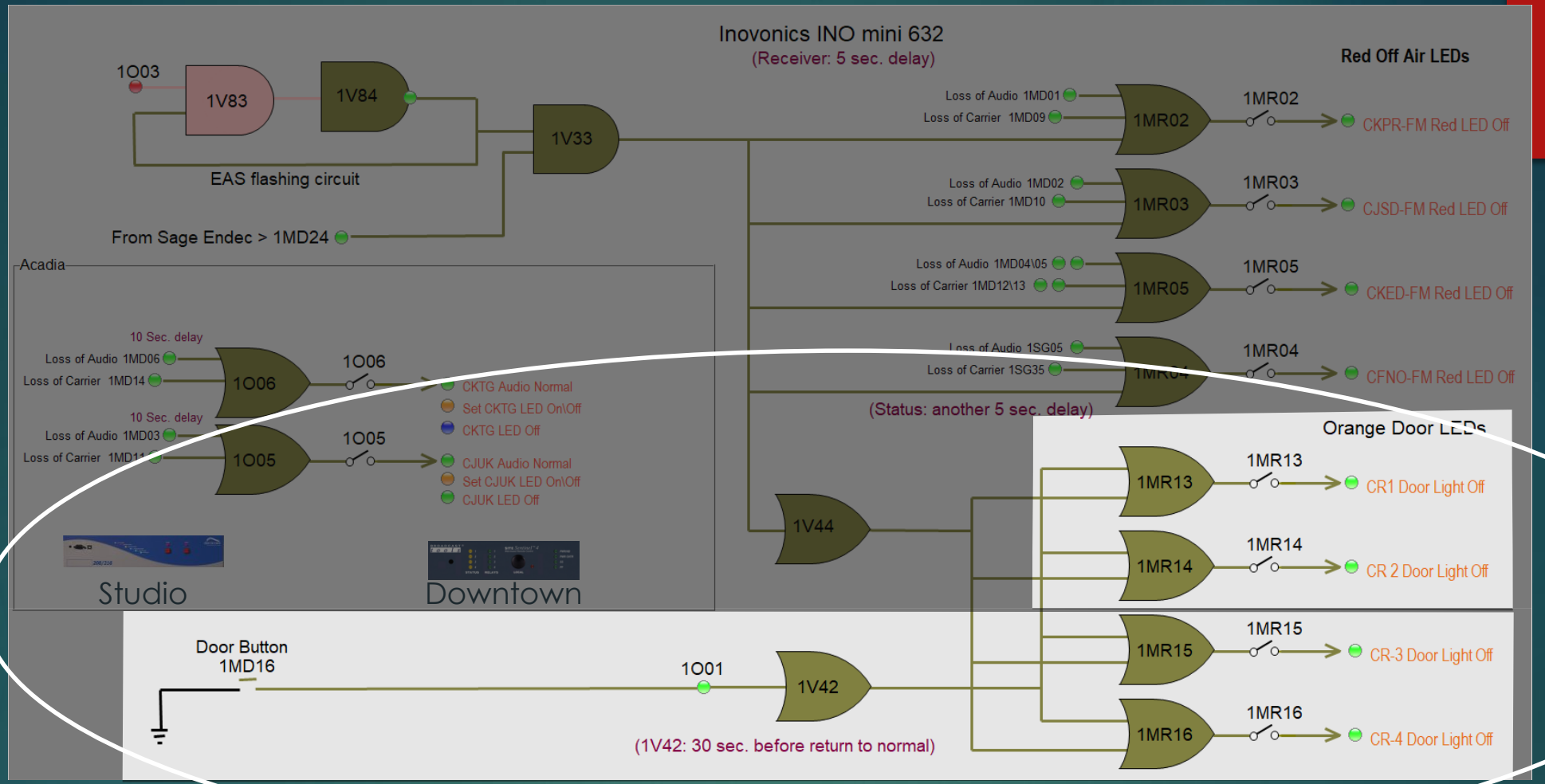


Control Room LEDs: Door button pressed

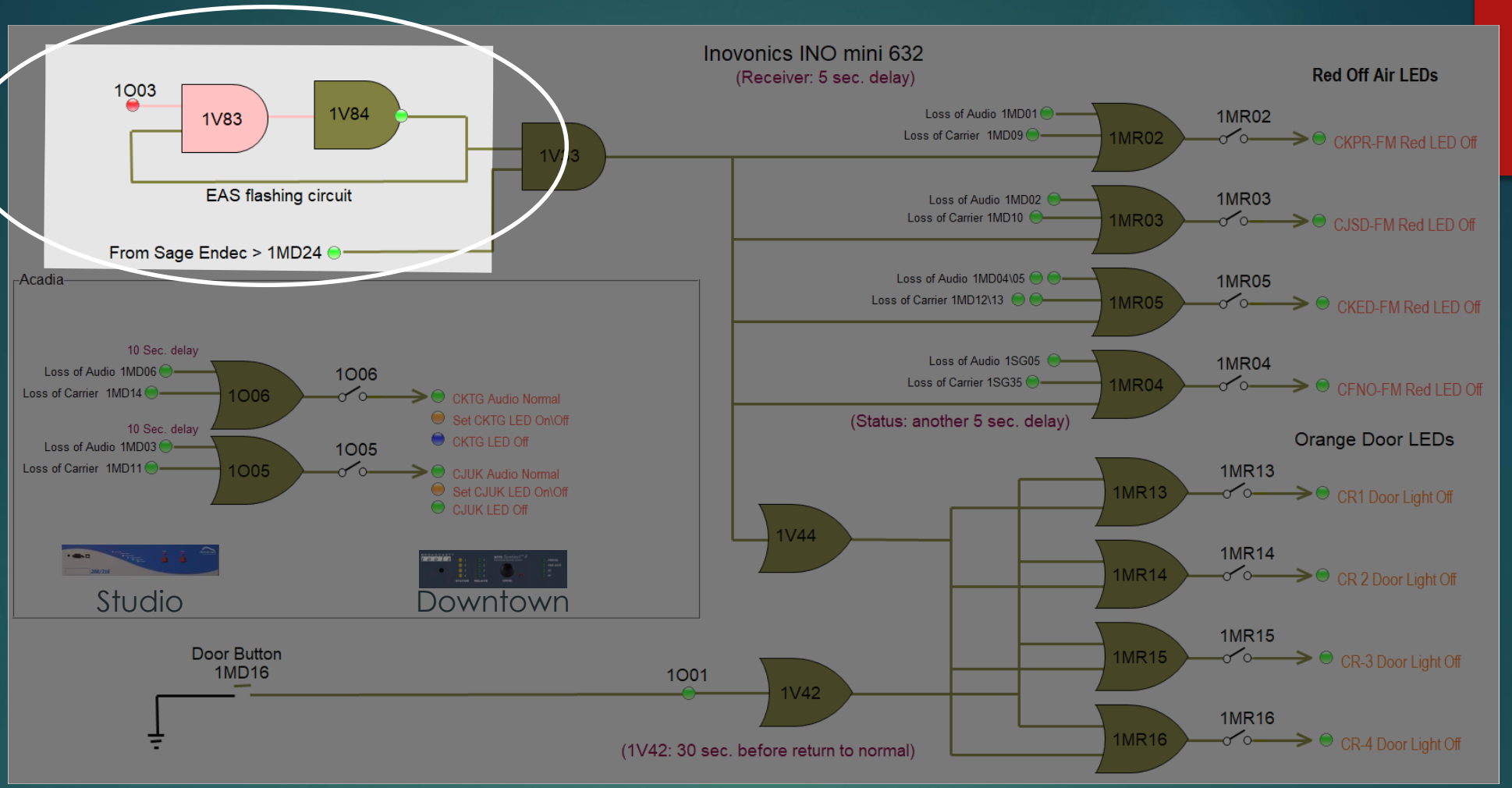
NAB 2023

More Than Remote Site Management

(What we might be doing differently)

dex

dougallmedia



Control Room LEDs: EAS Flashing Circuit

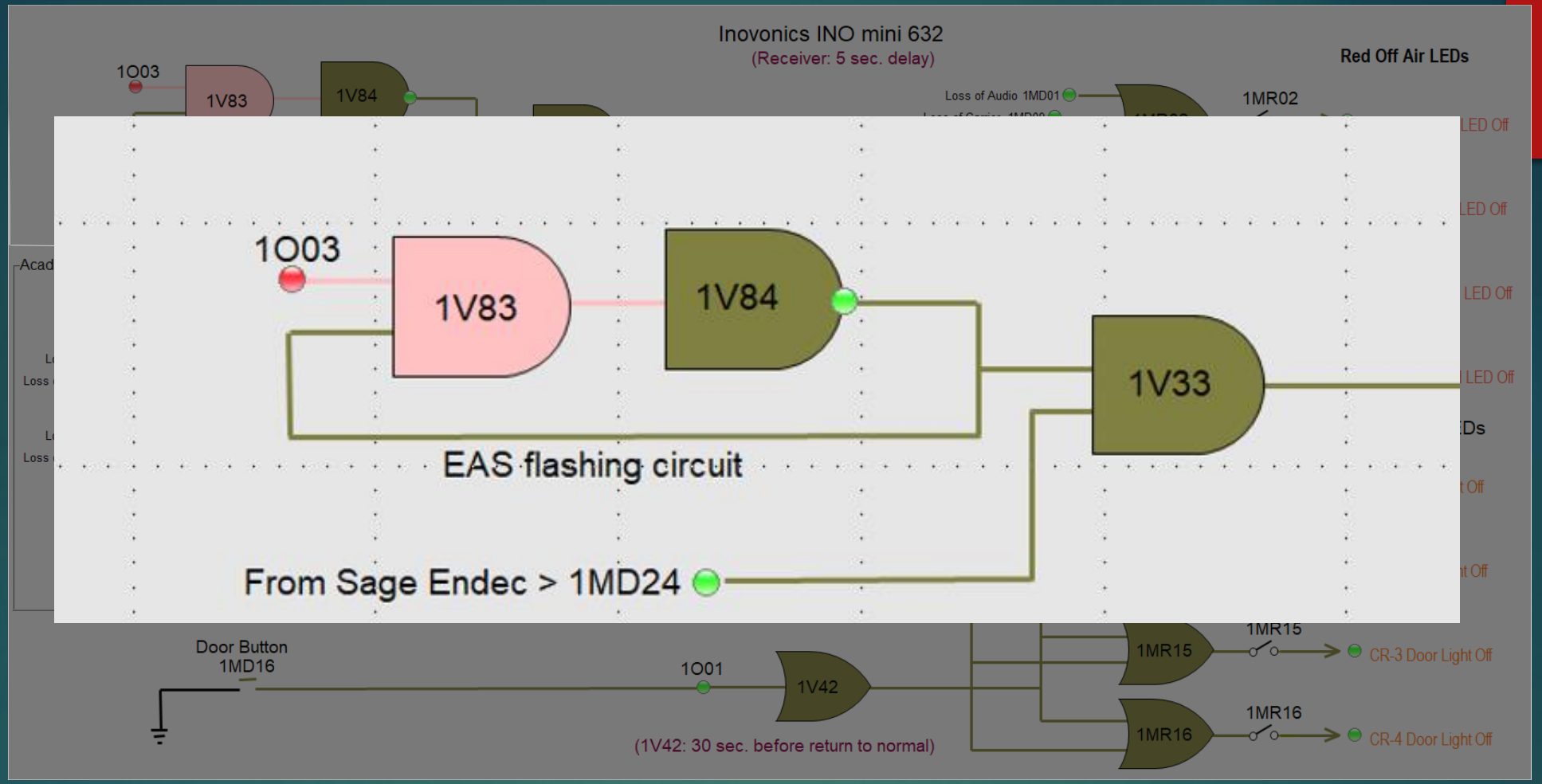
NAB 2023

More Than Remote Site Management

(What we might be doing differently)

dex

dougallmedia



Control Room LEDs: EAS Flashing Circuit

NAB 2023

More Than Remote Site Management

(What we might be doing differently)

dex

dougallmedia

NAB 2023

More Than Remote Site Management

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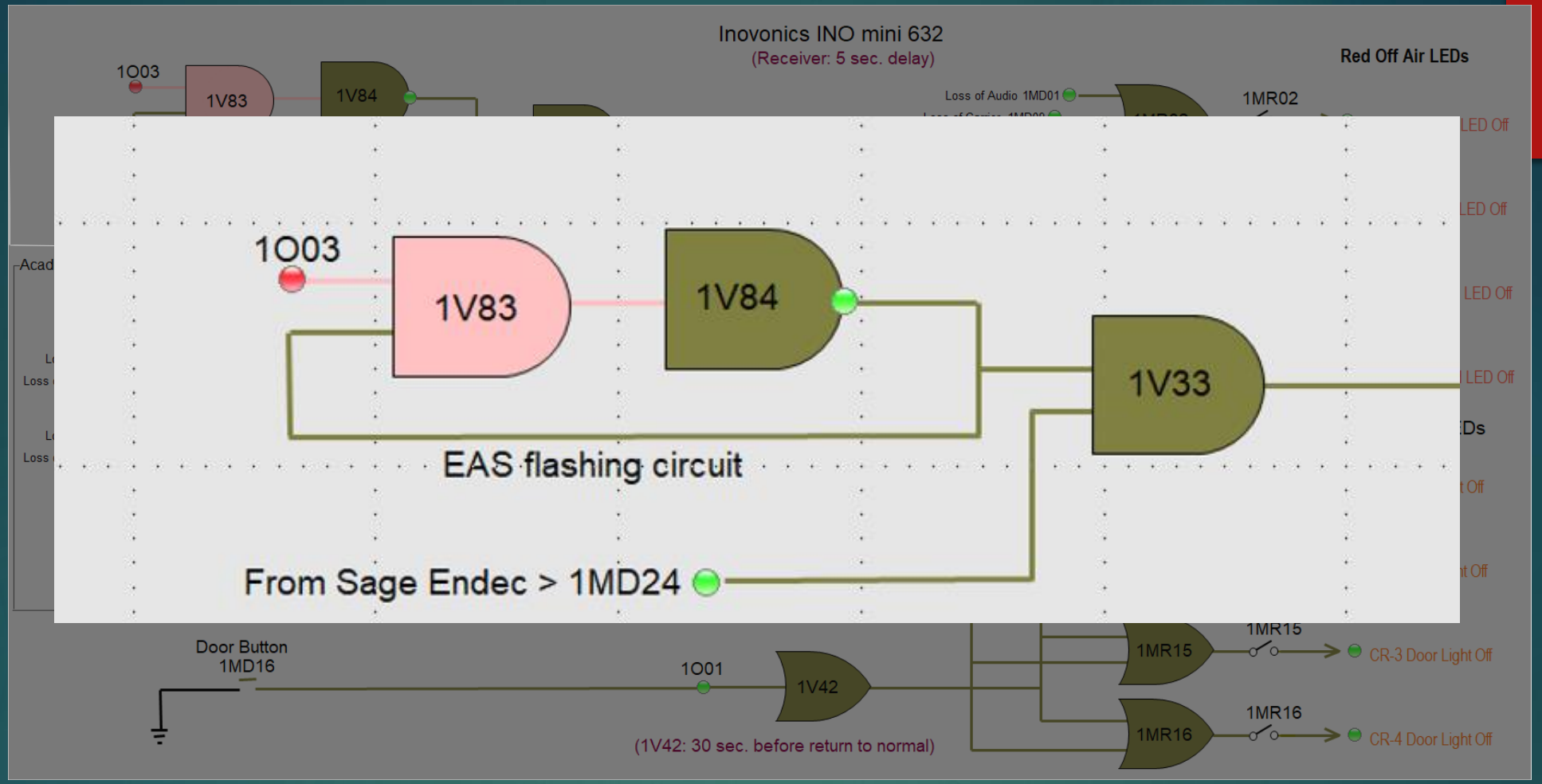
dougallmedia



Control Room LEDs: EAS Flashing Circuit

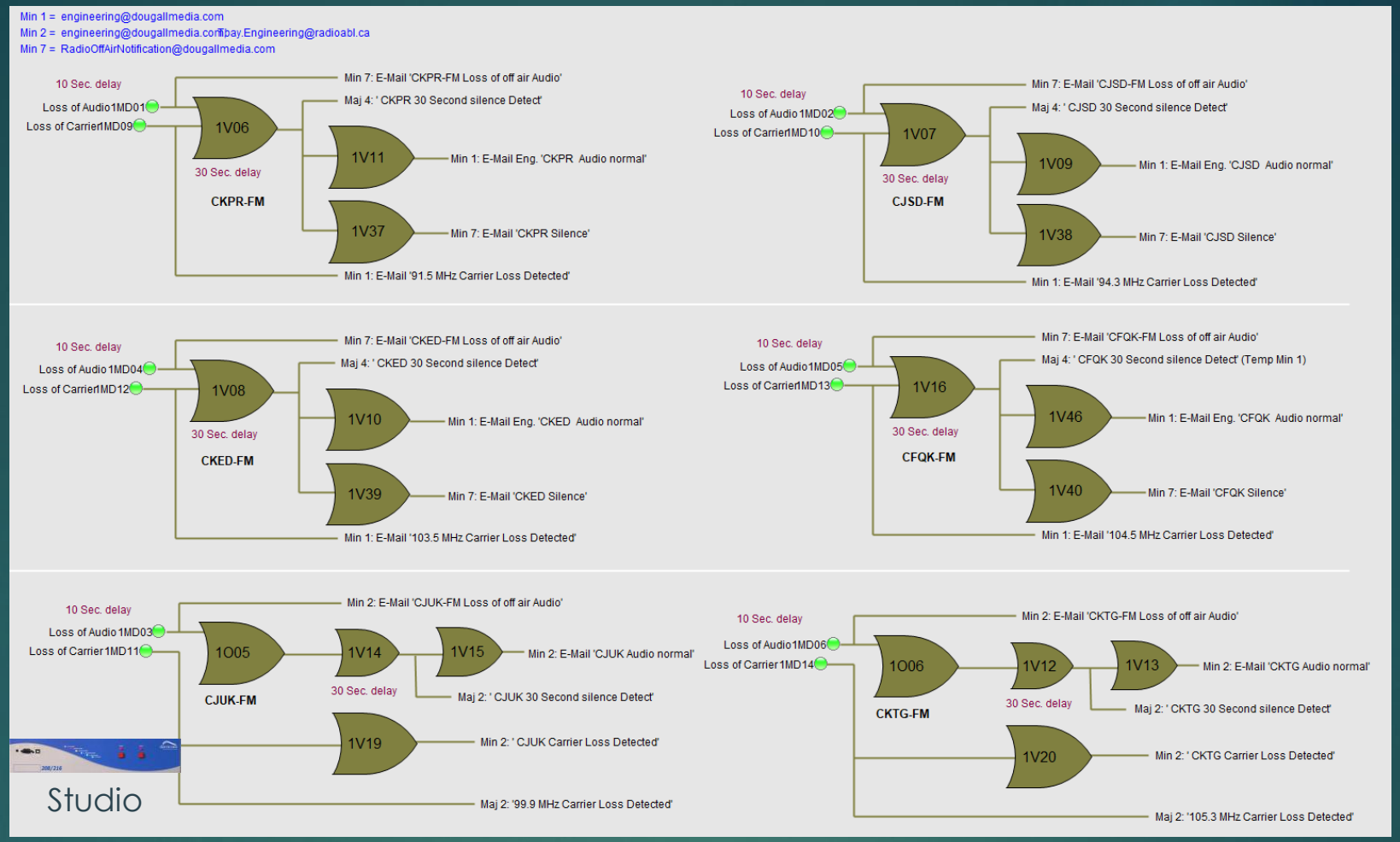
NAB 2023

More Than Remote Site Management

(What we might be doing differently)

dex

dougallmedia



Audio or Carrier loss notifications

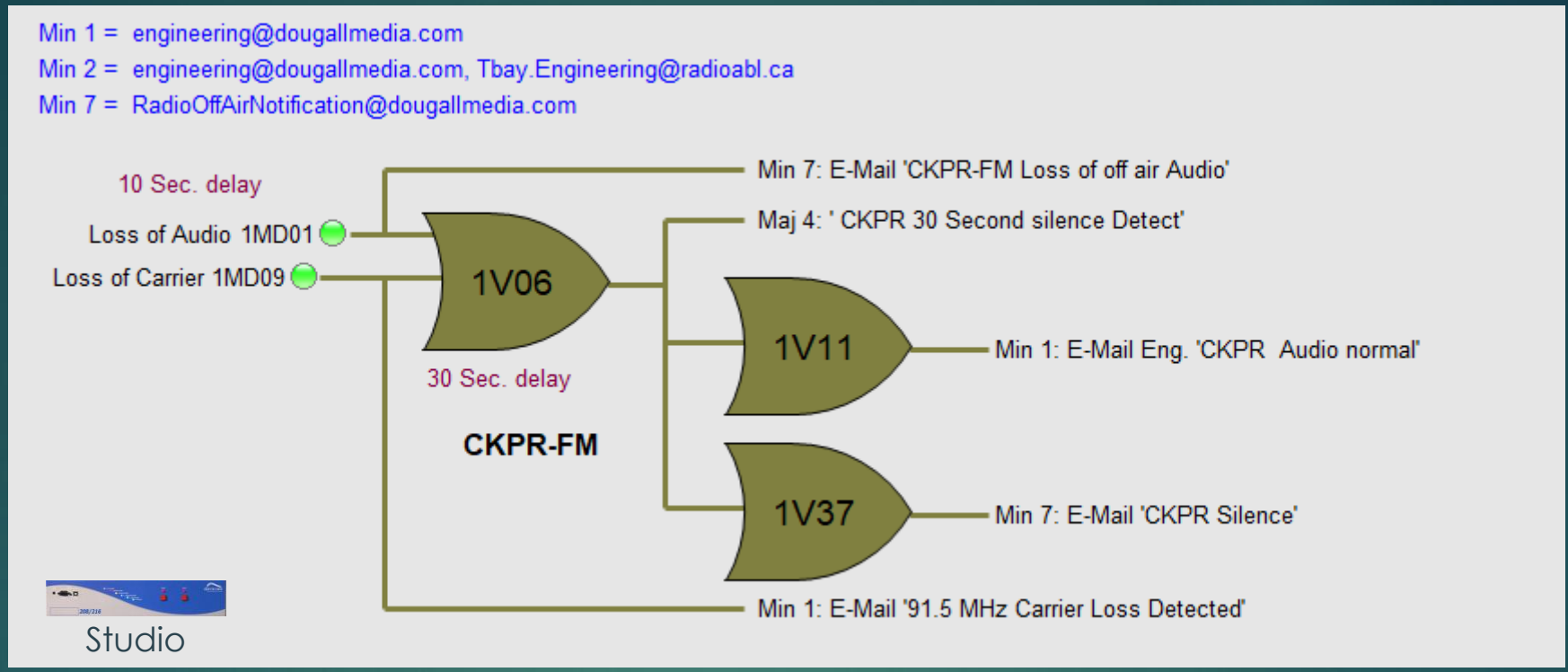
NAB 2023

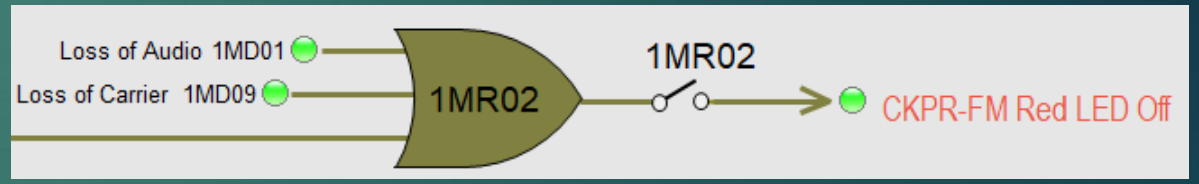
More Than Remote Site Management

(What we might be doing differently)

dex

dougallmedia



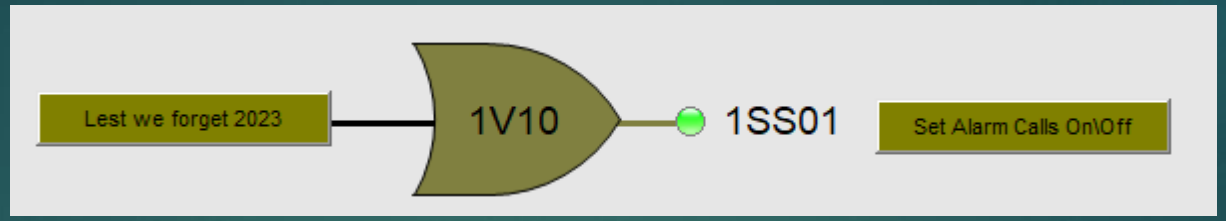


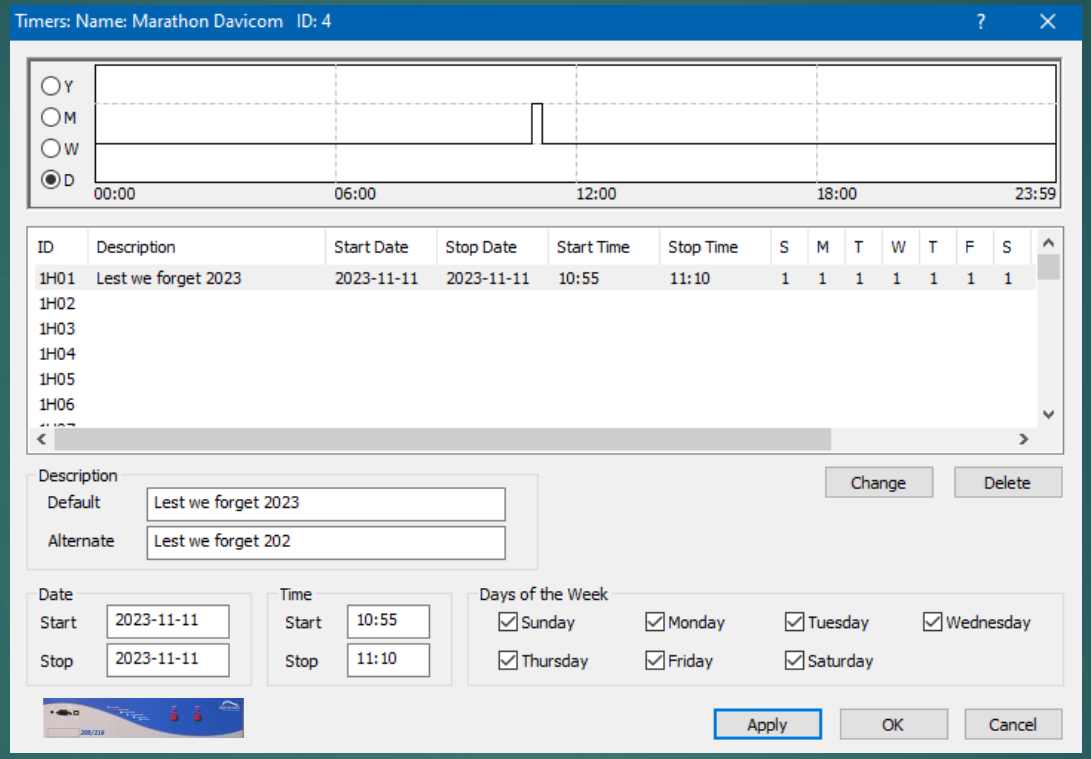
Audio or Carrier loss notifications

NAB 2023

More Than Remote Site Management

(What we might be doing differently)





DV-216: disable callouts during moment of silence

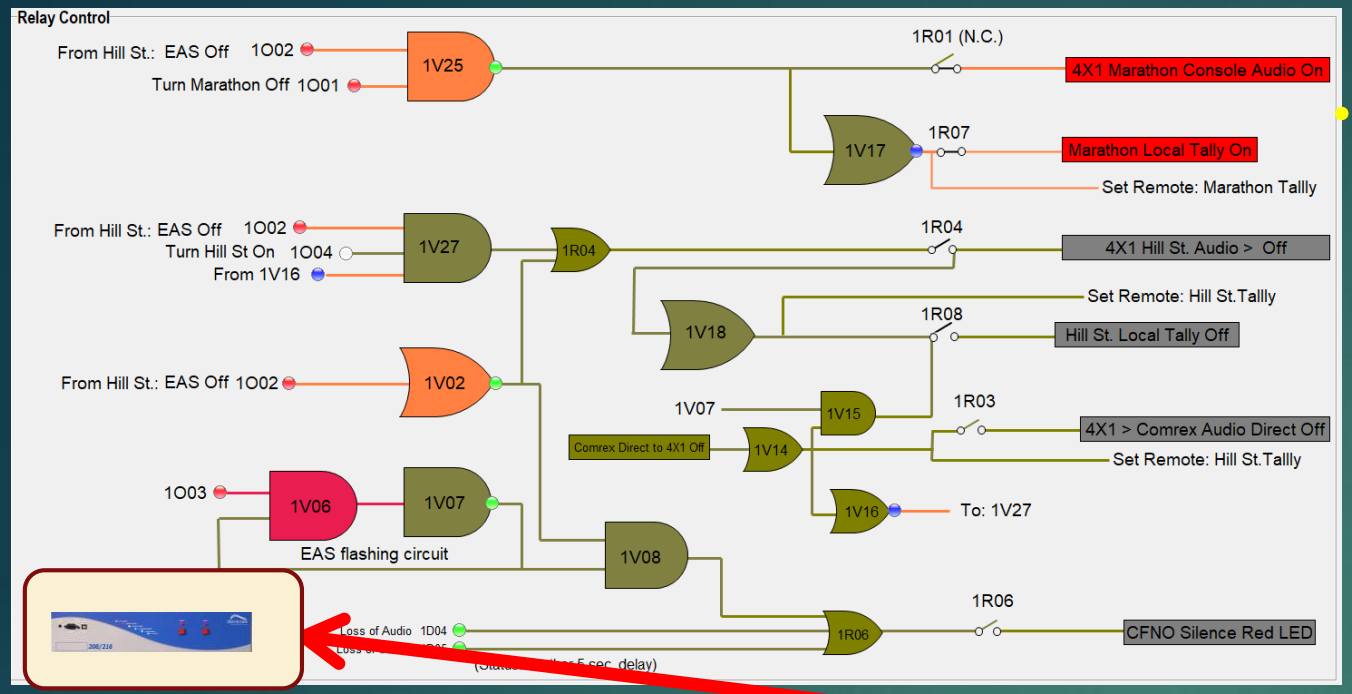
NAB 2023

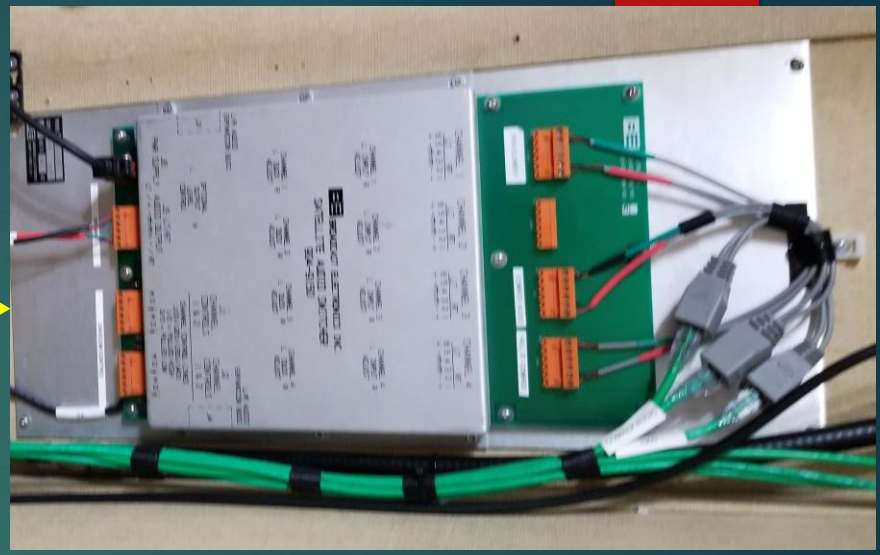
More Than Remote Site Management

(What we might be doing differently)

dex

dougallmedia





Marathon

Thunder Bay

DV-216: Switch Studio audio remotely

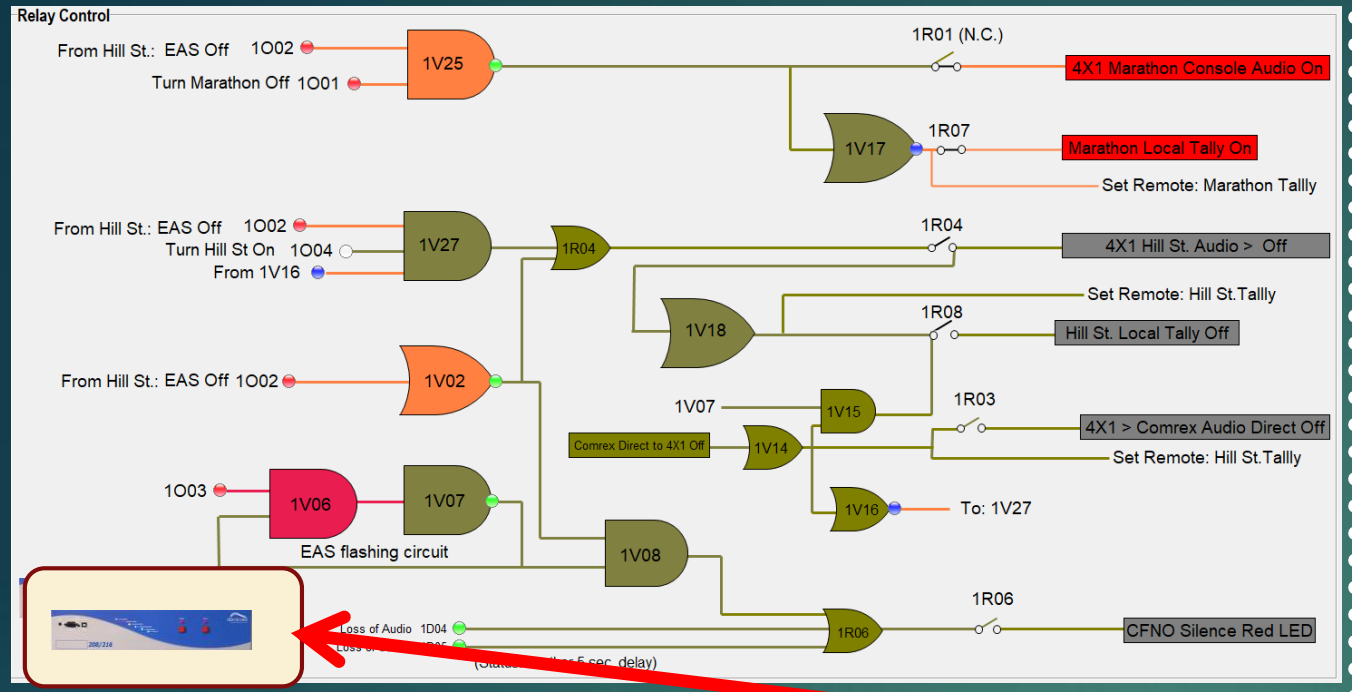
NAB 2023

More Than Remote Site Management

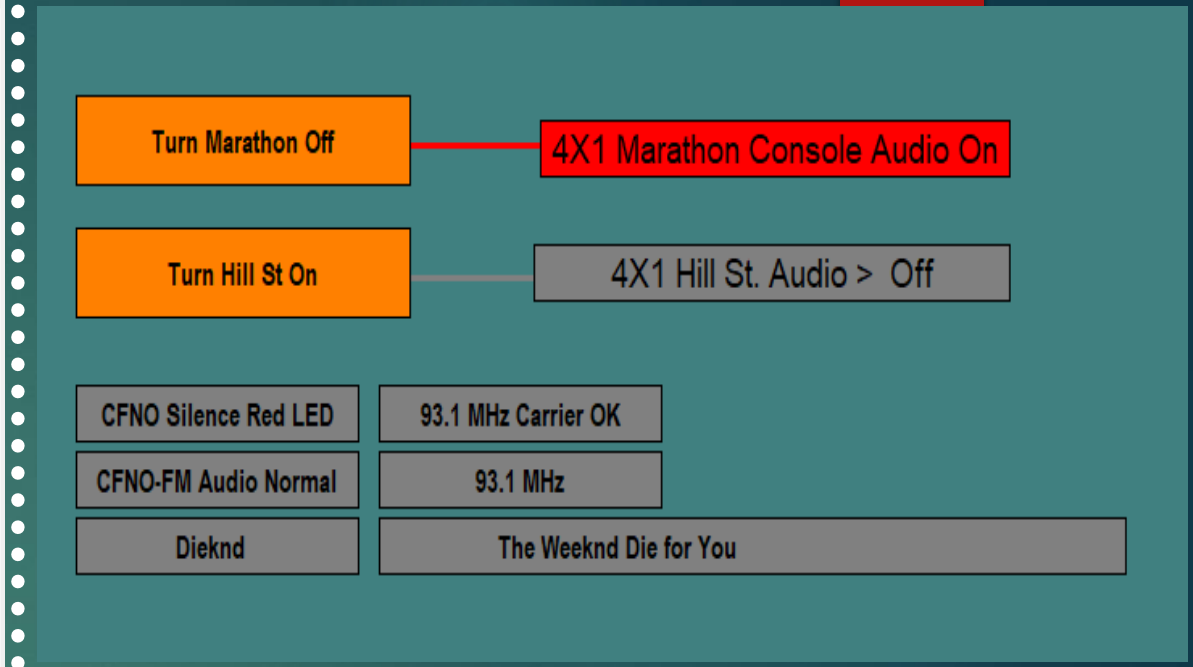
(What we might be doing differently)

dex

dougallmedia



Marathon



Thunder Bay

DV-216: Switch Studio audio remotely

NAB 2023

More Than Remote Site Management

(What we might be doing differently)

dex

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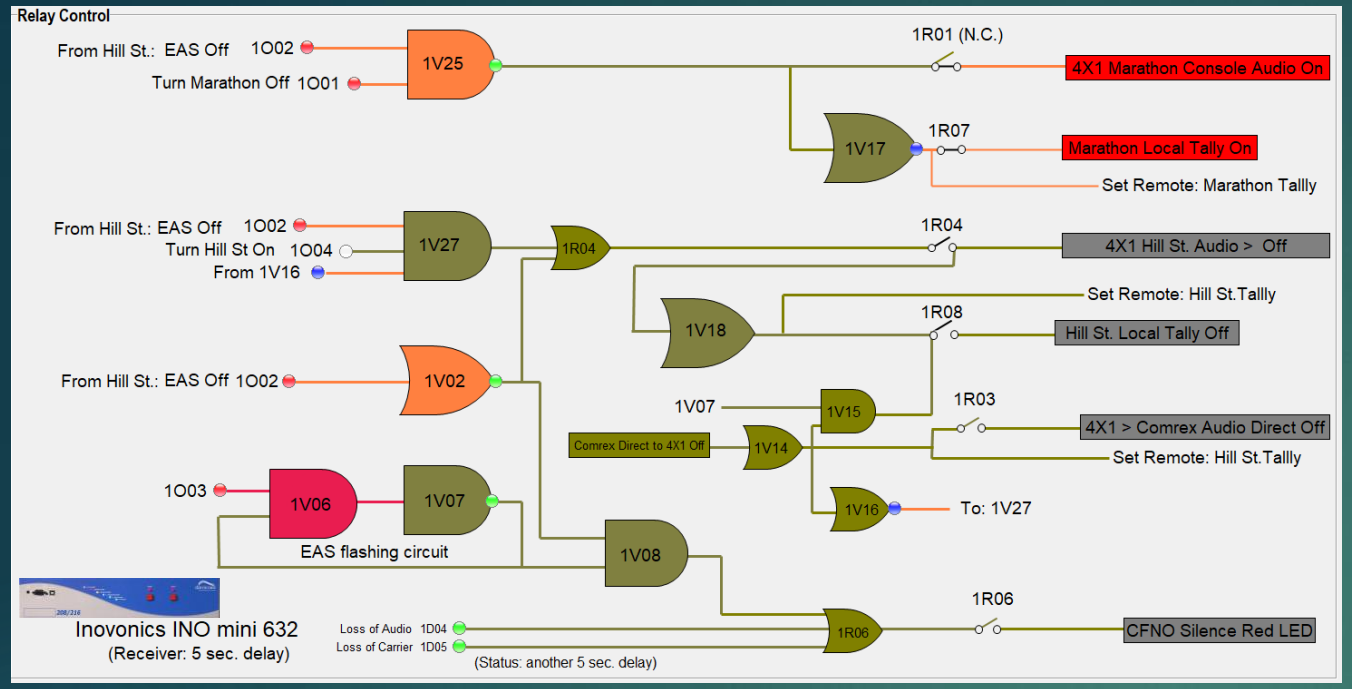
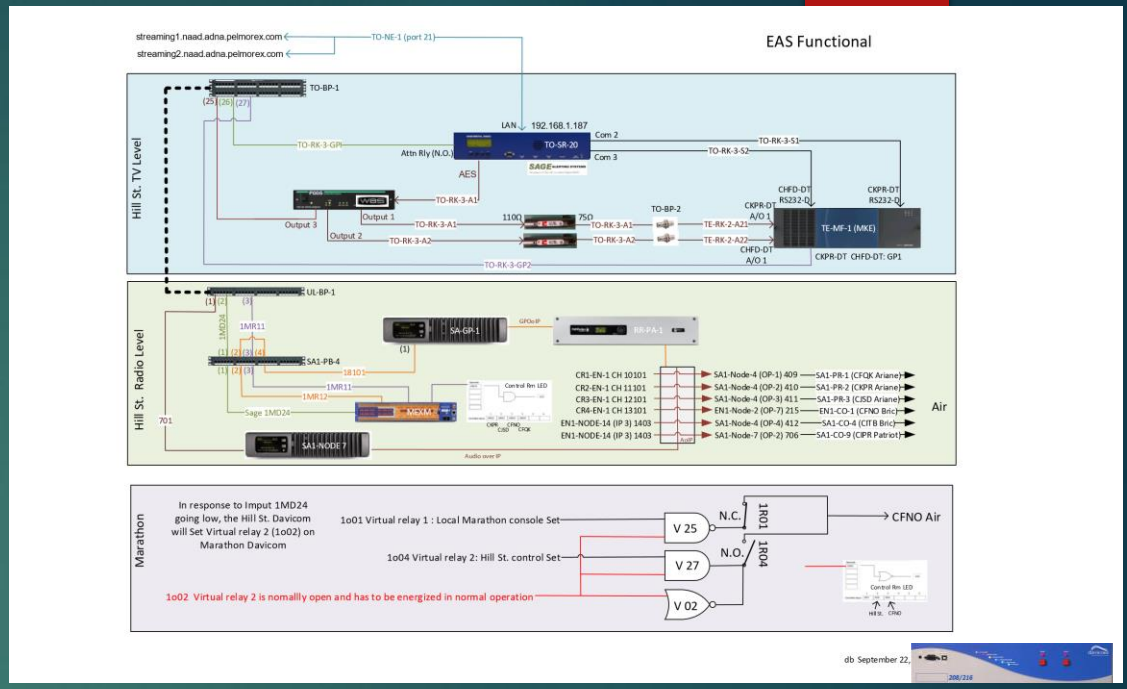




Thunder Bay

DV-216: Switch audio delivery remotely for EAS

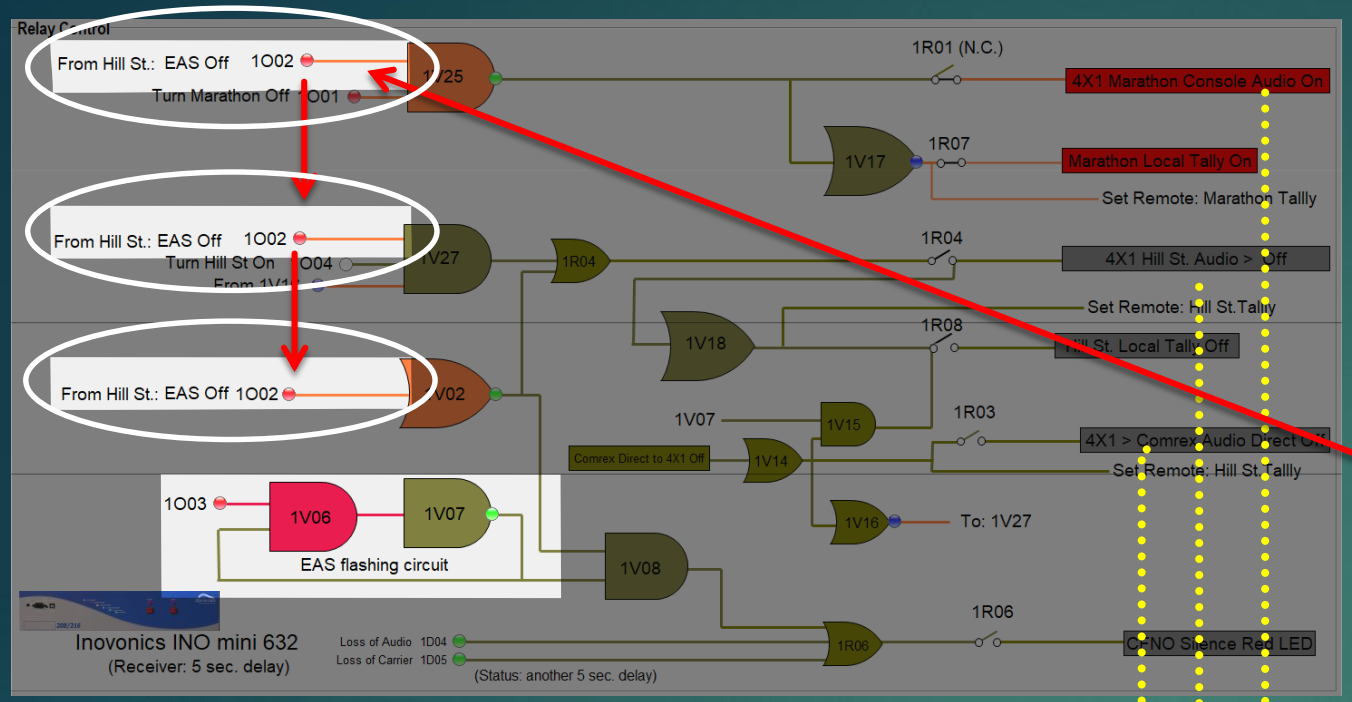
NAB 2023

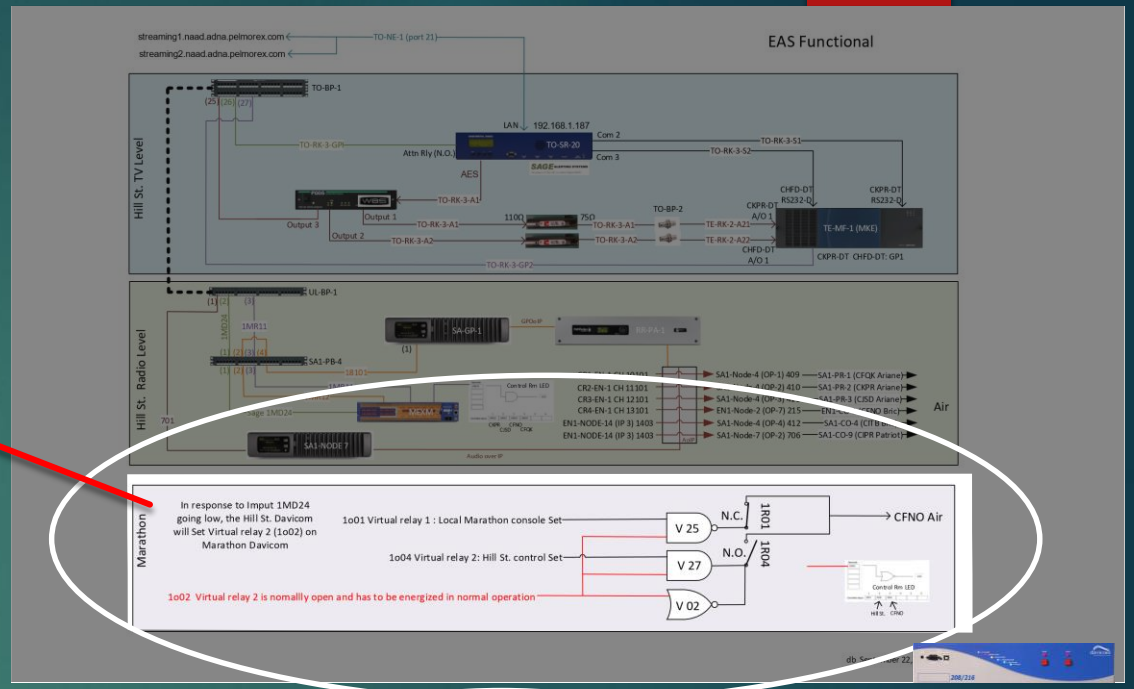
More Than Remote Site Management

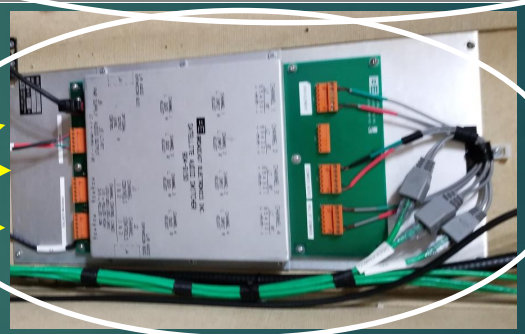
(What we might be doing differently)

dex

dougallmedia







DV-216: Switch audio delivery remotely for EAS and Flash LEDs

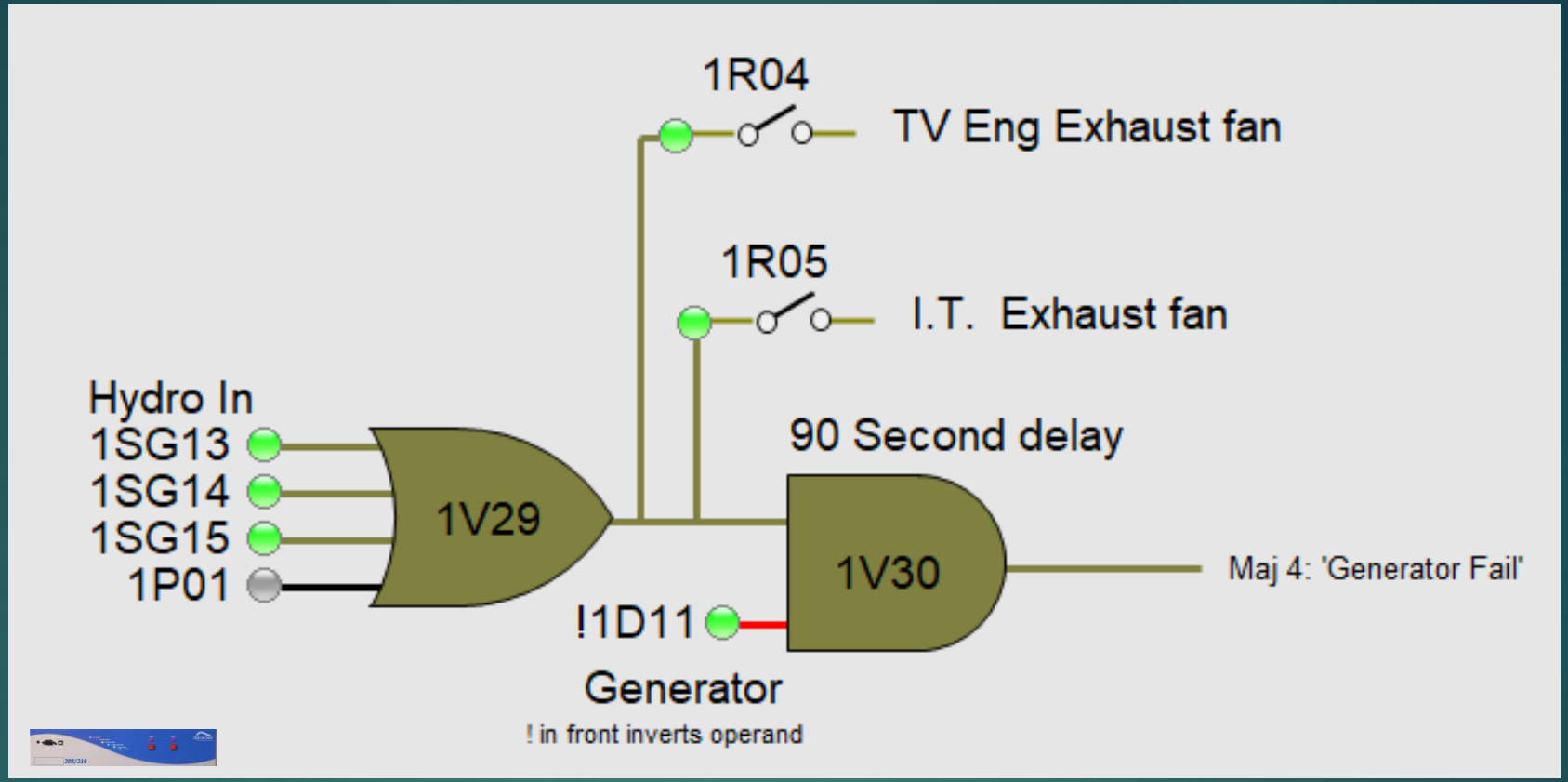
NAB 2023

More Than Remote Site Management

(What we might be doing differently)

dex

dougallmedia



DV-216: Major fault if generator fails to start

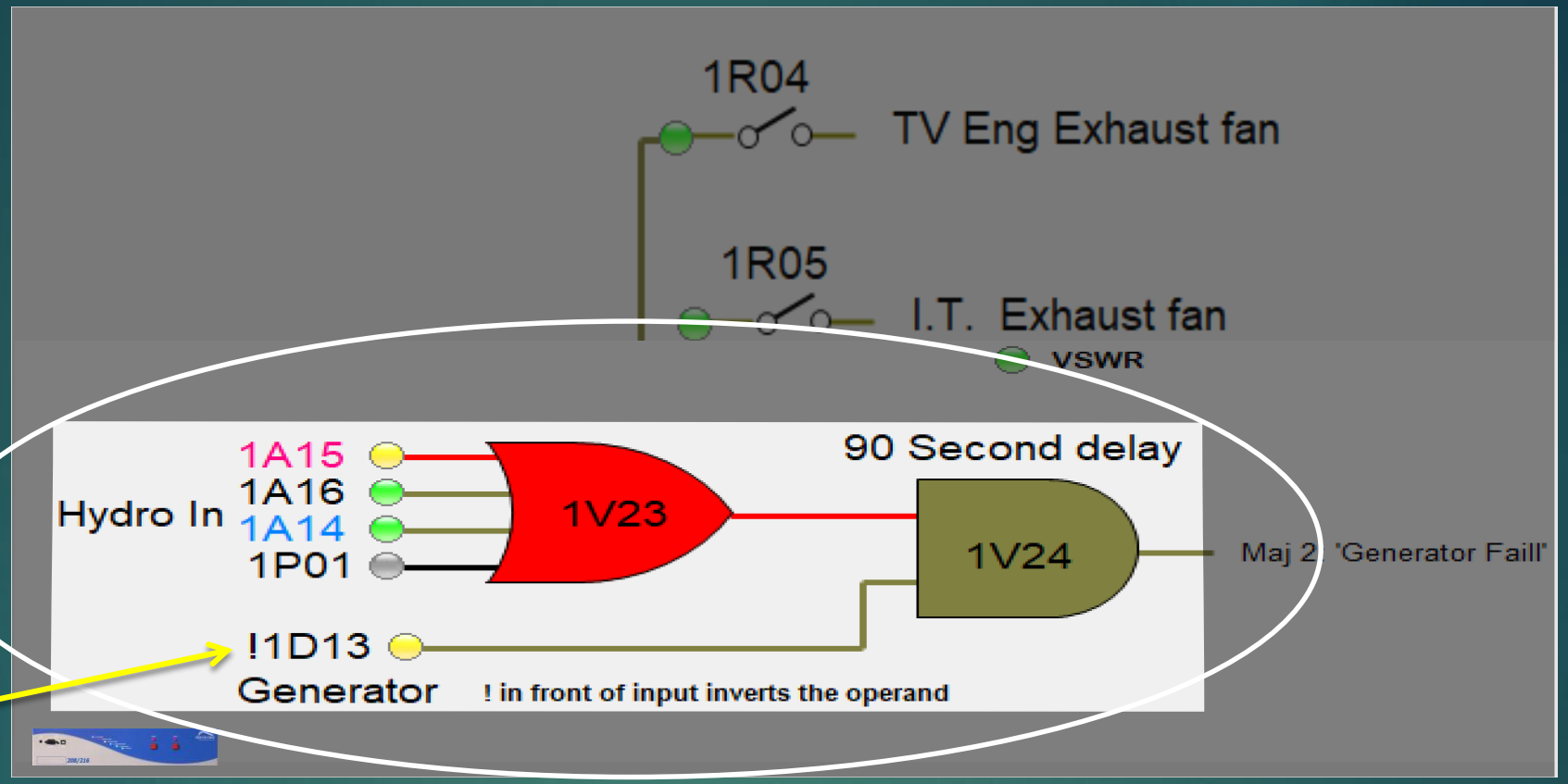
NAB 2023

More Than Remote Site Management

(What we might be doing differently)

dex

dougallmedia



! to invert

DV-216: Major fault if generator fails to start

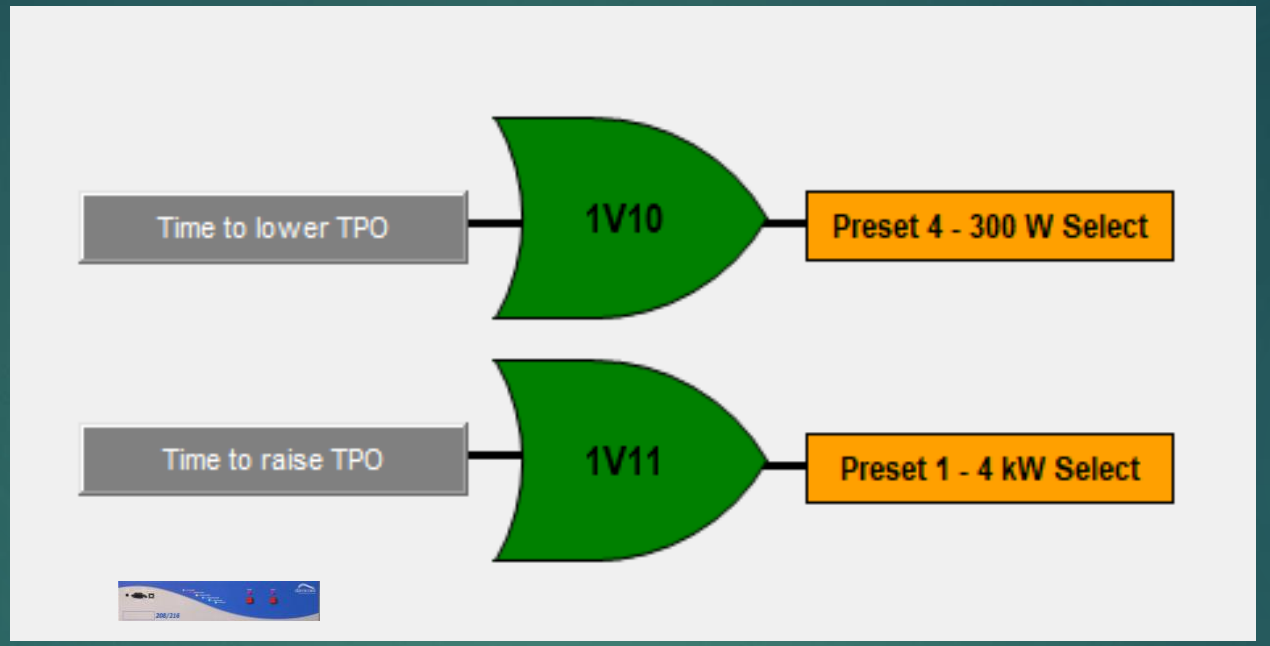
NAB 2023

More Than Remote Site Management

(What we might be doing differently)

dex

dougallmedia

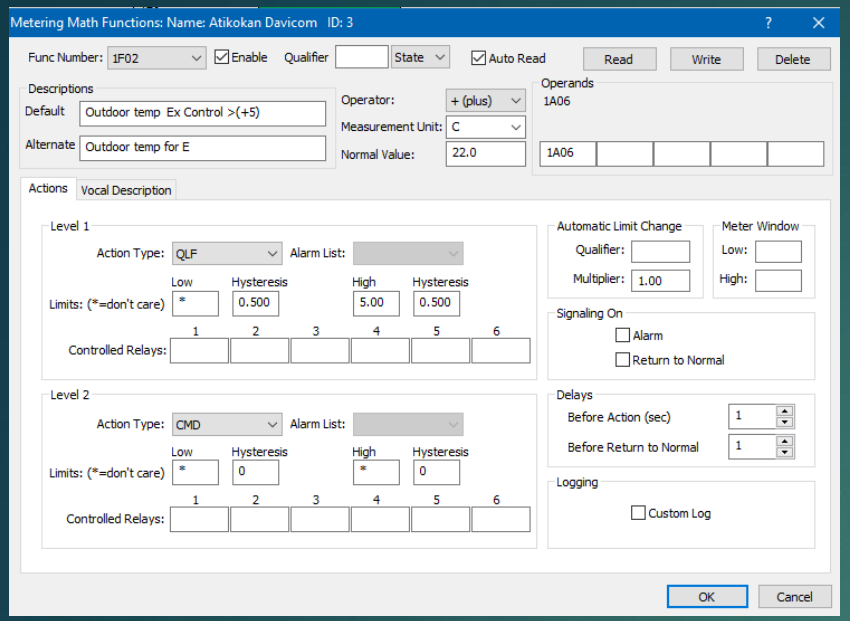


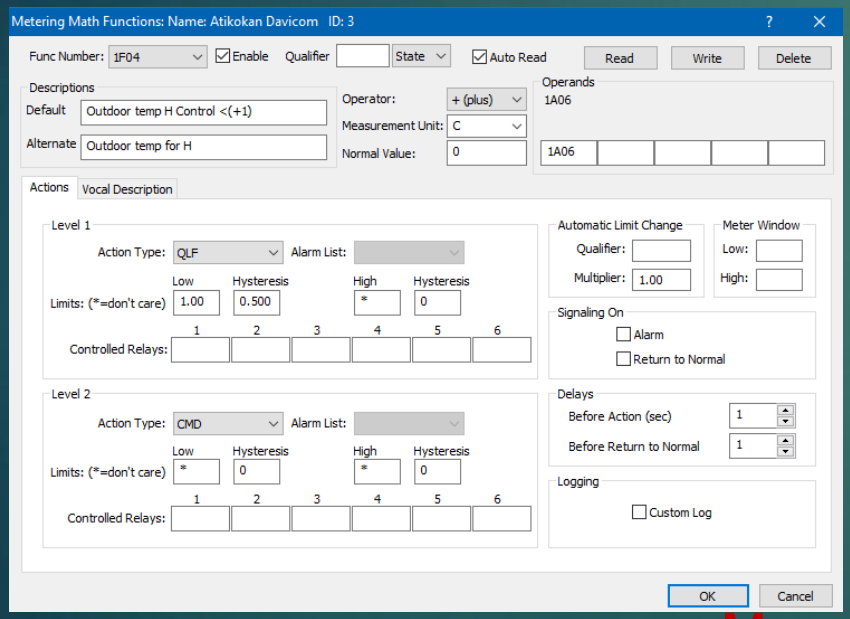
DV-216: Automatically lower TPO for tower work

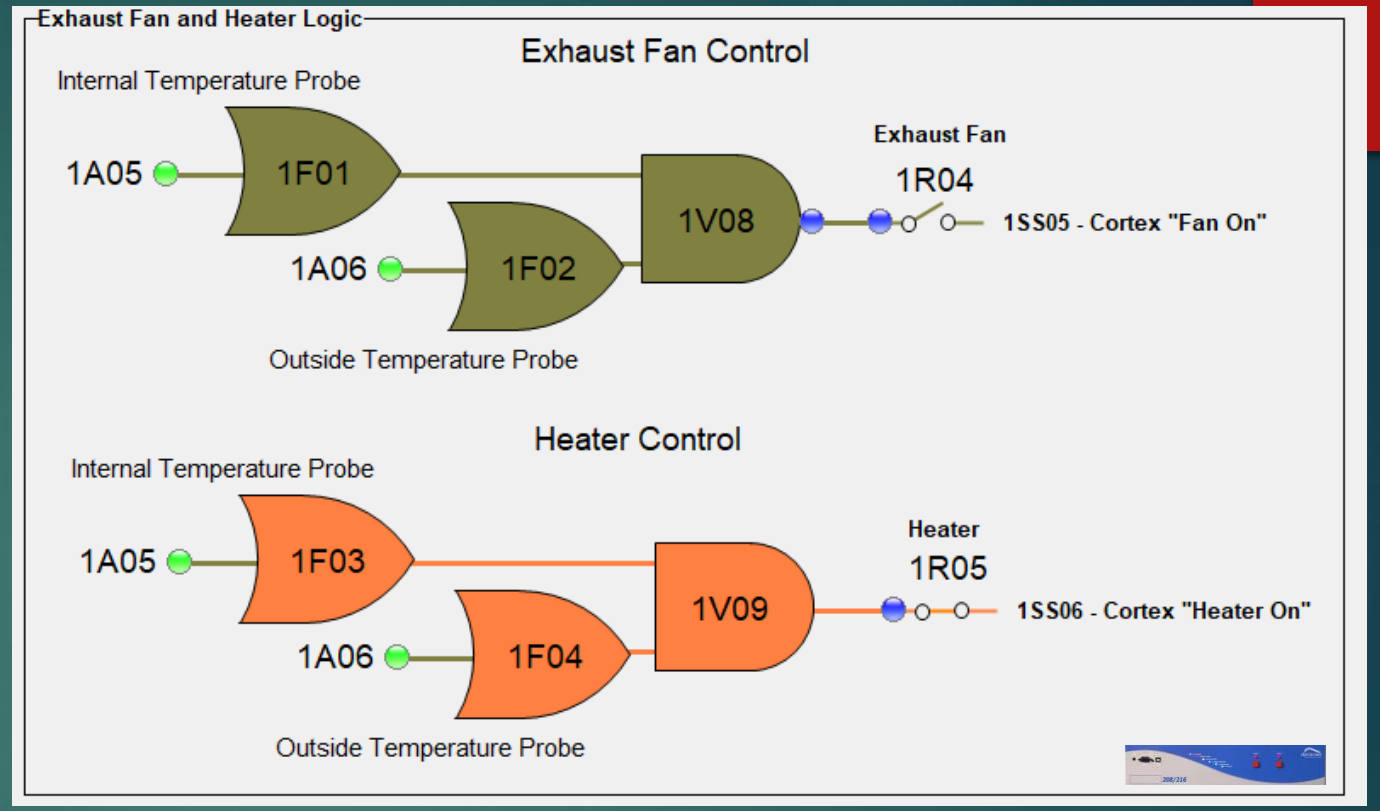
NAB 2023

More Than Remote Site Management

(What we might be doing differently)







DV-216: Temperature control

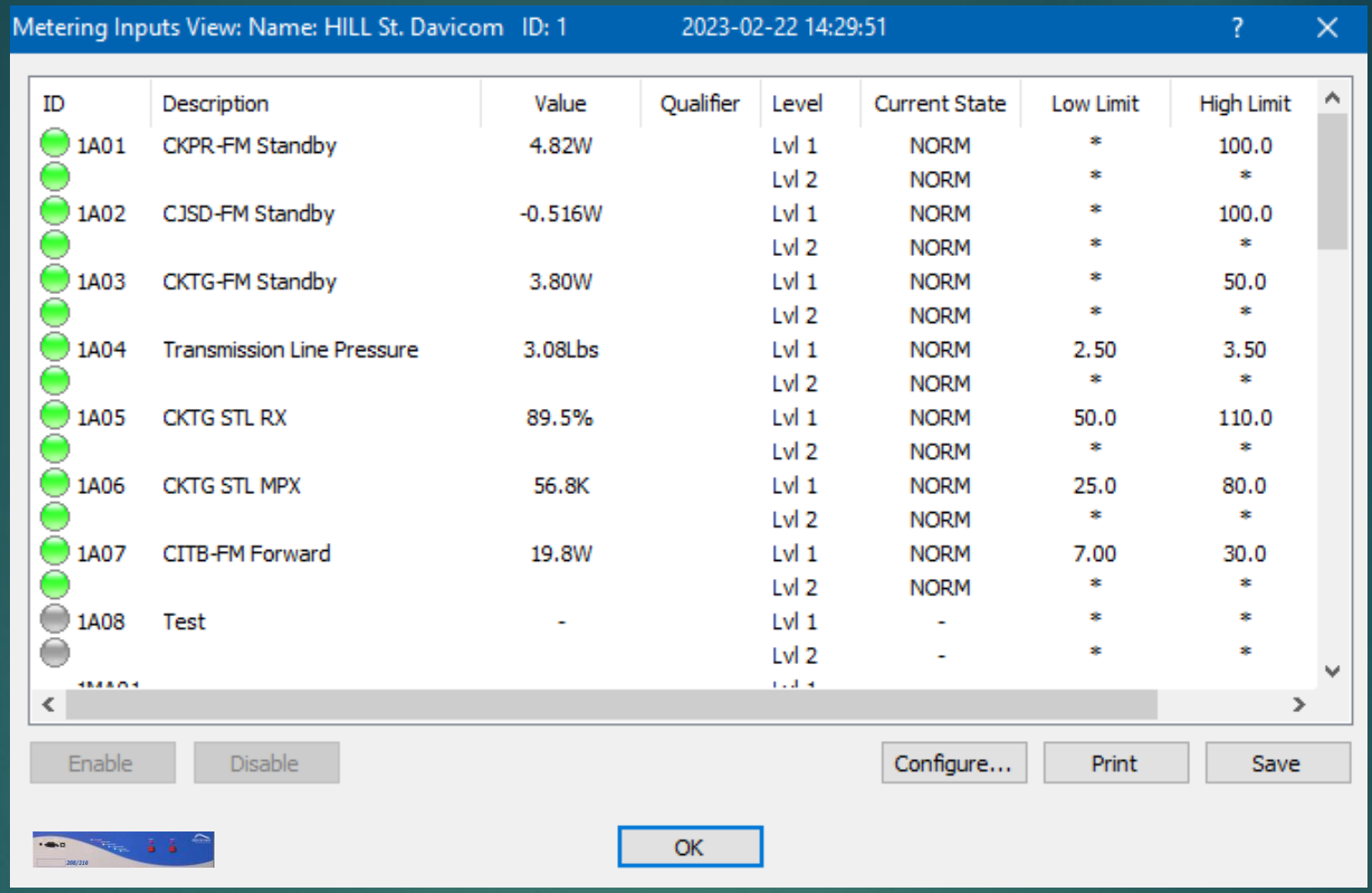
NAB 2023

More Than Remote Site Management

(What we might be doing differently)

dex

dougallmedia



MiniMac: Metering Inputs

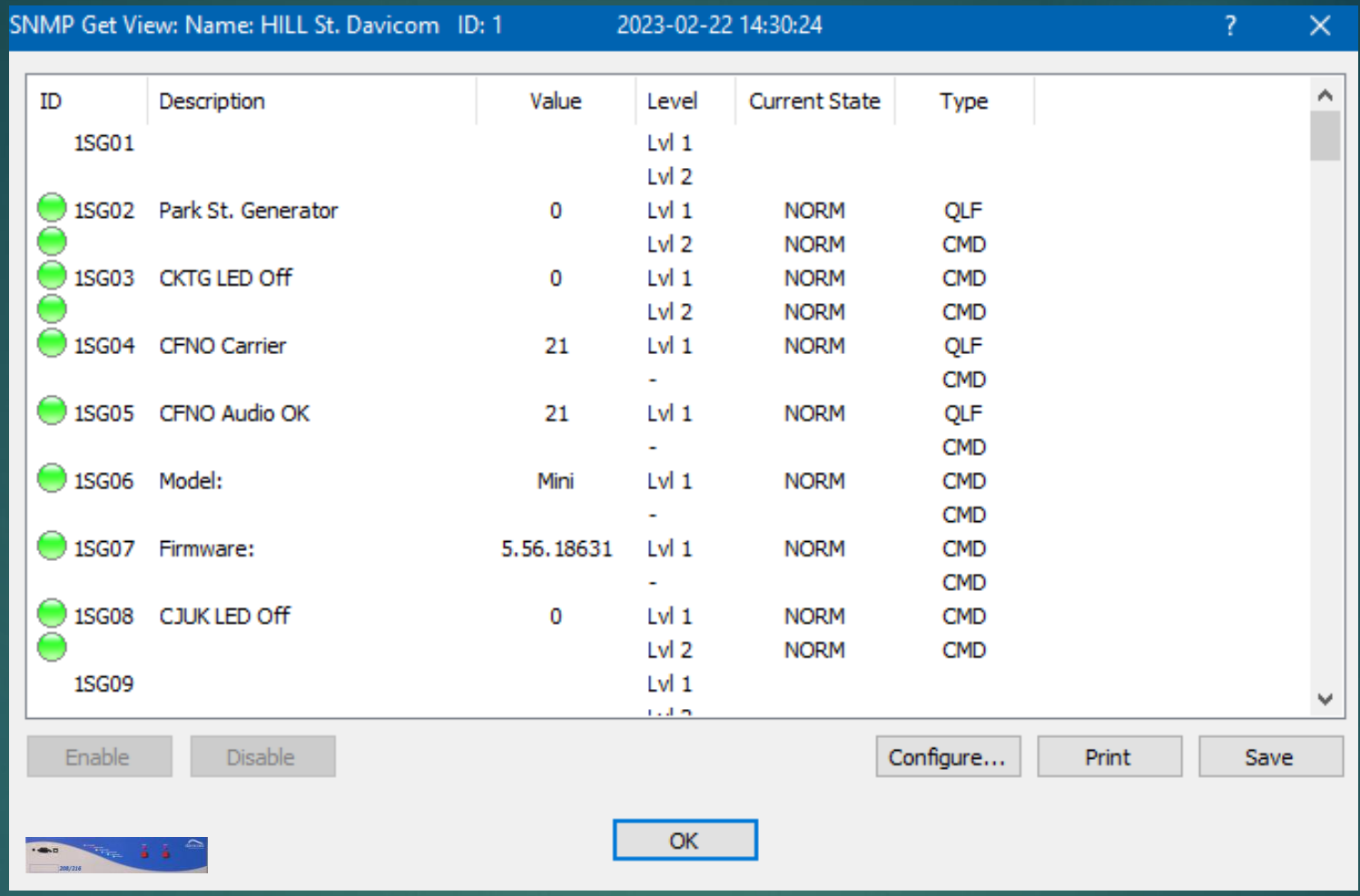
NAB 2023

More Than Remote Site Management

(What we might be doing differently)

dex

dougallmedia



MiniMac: SNMP Gets

NAB 2023

More Than Remote Site Management

(What we might be doing differently)

dex

dougallmedia

Normal | Active (CMD) (QLF) | Active (MAJ) | Active (MIN) | Disabled

1A01	CKPR-FM CD Forward	1MA01	CJSD Forward	2MA01	CKED Forward	1D01	CKPR-FM Hi Output On	1MD01	CJSD Transmitter Ready	2MD01	Strobes PS 1 Fault
1A02	CKPR-FM CD Refelcted	1MA02	CJSD Reflected	2MA02	CKED Relected	1D02	CKPR-FM Low Output Off	1MD02	CJSD RF On	2MD02	Strobes PS 2 Ok
1A03	FM Antenna Fwd Power	1MA03	CJSD PA Voltage	2MA03	CD CKTG Forward	1D03	CKPR-FM on Remote	1MD03	CJSD Remote On	2MD03	Strobes PS 3 Fault
1A04	FM Antenna Refl Power	1MA04	CJSD PA Current	2MA04	CD CKTG Reflected	1D04		1MD04	CJSD 10 kW Off	2MD04	Strobes PS 4 Ok
1A05		1MA05	CJSD Exciter Forward	2MA05		1D05		1MD05	CJSD 5 kW Active	2MD05	Strobes PS 5 Fault
1A06	CKPR-DT Forward	1MA06	CJSD Ambient Temp	2MA06		1D06	CKTG Watchman OK	1MD06	CJSD 1.5 kW Off	2MD06	Strobes PS 6 Ok
1A07		1MA07	TV Forward Power	2MA07		1D07	CJSD Watchman OK	1MD07	CJSD Misc. Off	2MD07	Strobes PS 7 Ok
1A08	CKPR-DT Refelcted	1MA08	TV Reflected Power	2MA08		1D08	CKPR FM Watchman OK	1MD08	CJSD Summary Alarm	2MD08	Strobes Controller Ok
1A09	CJSD CD Forward Power	1MA09	Antenna Presure	2MA09		1D09	FM Antenna Watchman -Ok-	1MD09	CJSD Interlock Normal	2MD09	Main Floor Smoke Detector
1A10	CJSD CD Reflected Power	1MA10		2MA10		1D10	Main Blower Air Flow On	1MD10	CJSD External Fault Ok	2MD10	Basement Smoke Detector
1A11	CKPR-DT AGC	1MA11		2MA11		1D11	Antenna Air > 1lbs	1MD11	CJSD High Temp Ok	2MD11	
1A12	Main Floor Temp	1MA12		2MA12		1D12	Door Closed	1MD12	CJSD Output Network Fault	2MD12	
1A13	Basement Temp	1MA13	Outdoor Temp	2MA13	CKTG-FM Forward	1D13	Generator OFF	1MD13	CJSD Low RF Ok	2MD13	CKTG-FM RF On
1A14	Blue Wallwort	1MA14	CKPR-FM PA Current (I)	2MA14	CKTG-FM Reflected	1D14		1MD14	CJSD Reflection Ok	2MD14	CKTG-FM Remote On
1A15	Red Wallwort	1MA15	CKPR-FM APC Ref Sample	2MA15		1D15	CKPR-FM Interlock OK	1MD15	CJSD IPA/PA Alarm	2MD15	
1A16	Black Wallwort	1MA16	CKPR-FM PA Voltage (E)	2MA16		1D16		1MD16	CJSD Power Supply Ok	2MD16	
		1MA17	CKPR-FM Forward	2MA17		1D17		1MD17	CJSD AC Ok	2MD17	
		1MA18	CHFD-DT Forward	2MA18		1D18		1MD18	CHFD-DT On	2MD18	
		1MA19	CHFD-DT Refelcted	2MA19		1D19		1MD19	CHFD-DT AGC On	2MD19	
		1MA20	CHFD-DT AGC	2MA20		1D20		1MD20	CHFD-DT Remote	2MD20	
		1MA21	CKPR-FM Reflected Power	2MA21		1D21		1MD21	CHFD-DT Interlock 1 Ok	2MD21	
		1MA22	CKPR-FM Flex Exciter F	2MA22		1D22	CKPR-DT VSWR Ok	1MD22	CHFD-DT VSWR Ok	2MD22	
		1MA23	CKPR-FM Flex Exciter R	2MA23		1D23	CKPR-DT AGC On	1MD23	CHFD-DT Temp Ok	2MD23	
		1MA24		2MA24		1D24	CKPR-DT Remote	1MD24	CHFD-DT Interlock 2 Ok	2MD24	
						1D25	CKPR-DT Interlock 1 Open				
						1D26	CKPR-DT On				
						1D27	CKPR-DT Temp Ok				
						1D28	CKPR-DT Interlock 2 Ok				
						1D29	CKPR-FM PS Fault				
						1D30	CKPR-FM Temp OK				
						1D31	CKPR-FM VSWR OK				
						1D32	CKPR-FM PA OK				

DV-216: Inputs

NAB 2023

More Than Remote Site Management

(What we might be doing differently)

dougallmedia

Model: DV-216 Firmware: 5.56.20849 Normal Active (CMD) (QLF) Active (MAJ) Active (MIN) Disabled Set Active \ Normal

1SG01	CJSD Controller Low AC Alarm	1SG32	CJSD Exciter Comp Peak	1SG63	Hydro Phase Blue	1SS01	Toggle CJSD-FM Standby On\Off
1SG02	CJSD Controller Low Battery	1SG33	CJSD Exciter PA High Temperatu	1SG64	Strobes SOL Voltage	1SS02	Toggle CKPR-FM Standby On\Off
1SG03	CJSD Controller Exciter Audio	1SG34	CJSD Exciter Fan Fail	1SG65	Strobes SOL Current	1SS03	SNMP CKTG-FM Standby On\Off
1SG04	CJSD Controller Exciter Fail	1SG35	CJSD Exciter Low Battery	1SG66	Strobes SOL Power	1SS04	Toggle CHFD-DT Standby On\Off
1SG05	CJSD Controller SWR Shutdown	1SG36	CJSD Exciter PA Voltage Fail	1SG67		1SS05	Toggle CKPR-DT Standby On\Off
1SG06	CJSD ControlleReject Power Shu	1SG37	CJSD Exciter Low Composite	1SG68		1SS06	E-N Fan
1SG07	CJSD ControllForward Power Shu	1SG38	Tower Lights Auto Day Mode	1SG69		1SS07	E-E Fan
1SG08	Controller High Temperature	1SG39	Tower Lights Auto Night Mode	1SG70		1SS08	W Fan
1SG09	CJSD Controller Low Battery Me	1SG40	Tower Lights AutoTwilight Mode	1SG71		1SS09	Air Exchanger
1SG10	CJSD Controller Power Supply F	1SG41	SOLs Ok	1SG72	Temp VS300 RF Off	1SS10	Strobes Hi
1SG11		1SG42	Photocell	1SG73		1SS11	Strobes Lo
1SG12		1SG43	Permanent Day Mode	1SG74		1SS12	Strobes Twi
1SG13		1SG44	Permanent Night Mode	1SG75	CKTG Name	1SS13	Set Temp VS300 RF Off
1SG14		1SG45	Permanent Twilight Mode	1SG76	CKTG TPO	1SS14	Set Temp VS300 RF On
1SG15		1SG46	Model:	1SG77	CKTG Forward	1SS15	CKTG RF On
1SG16		1SG47	Firmware:	1SG78	CKTG Reflected	1SS16	CKTG RF Off
1SG17		1SG48		1SG79		1SS17	CKTG Preset 10.8 kW
1SG18		1SG49	CJSD Forward	1SG80		1SS18	CKTG Preset 5 kW
1SG19		1SG50		1SG81		1SS19	CKTG Preset 2 kW
1SG20		1SG51		1SG82		1SS20	CKTG Preset 300 W
1SG21		1SG52	CJSD Reflected	1SG83		1SS21	CKTG Reset Transmitter
1SG22		1SG53	CJSD Rt	1SG84		1SS22	
1SG23	CJSD Controller VSWR	1SG54	CKPR Rt	1SG85		1SS23	
1SG24		1SG55		1SG86		1SS24	
1SG25		1SG56	Pump	1SG87		1SS25	
1SG26		1SG57	Tank Pressure	1SG88		1SS26	
1SG27		1SG58	Compressor Output Flow	1SG89		1SS27	
1SG28		1SG59	Compressor Temp	1SG90		1SS28	
1SG29		1SG60	Compressor Run Time	1SG91		1SS30	
1SG30		1SG61	Hydro Phase Red	1SG92			
1SG31		1SG62	Hydro Phase Black	1SG93			

DV-216: SNMP Gets\Sets

NAB 2023

More Than Remote Site Management

(What we might be doing differently)

dex

dougallmedia

Pulsable | Released | Energized | Forced On | Forced Off | Disabled | Virtual Relay Released

1R01	CKPR Standby OFF	1MR01		1O01	Front Door Button Radio	1O36	
1R02	CJSD Standby OFF	1MR02	CKPR-FM Red LED Off	1O02		1O37	
1R03	CKTG Standby OFF	1MR03	CJSD-FM Red LED Off	1O03	For flasher	1O38	
1R04	TV Eng Exhaust Off	1MR04	CFNO-FM Red LED Off	1O04	Pathfinder CJSD Audio	1O39	
1R05	I.T. Exhaust Off	1MR05	CKED-FM Red LED Off	1O05	CJUK Audio Normal	1O40	
1R06	Standby Exhaust Fan Off	1MR06		1O06	CKTG Audio Normal	1041	
1R07	CHFD-DT Standby Off	1MR07		1O07	From Marath: Comrex Direct Off	1O42	
1R08	CKPR-DT Standby Off	1MR08	Hill St Lamp Off	1O08		1O43	
		1MR09	Marathon Lamp On	1O09		1O44	
		1MR10		1O10	Maraton Console On	1O45	
		1MR11	TV Sage ENDEC Normal	1O11	Hill St Off	1O46	Deva 91.5 MHz
		1MR12	Radio Sage ENDEC Normal	1O12	From Baldy CJSD-FM Standby	1O47	Deva 94.3 MHz
		1MR13	CR1 Door Light Off	1O13	From Baldy CKPR-FM Standby	1O48	Deva 99.9 MHz
		1MR14	CR 2 Door Light Off	1O14	From Baldy CKTG-FM Standby	1O49	Deva 103.5 MHz
		1MR15	CR-3 Door Light Off	1O15	From Baldy CHFD-DT Standby	1O50	Deva 104.5 MHz
		1MR16	CR-4 Door Light Off	1O16	From Baldy CKPR-DT Standby	1O51	Deva 105.3 MHz
		1MR17	CHFD: to CIII	1O17		1O52	
		1MR18	CHFD: to Graphic	1O18		1O53	
		1MR19	CKPR: to CTV	1O19		1O54	
		1MR20	CKPR: to Graphic	1O20		1O55	
		1MR21	Pathfinder Comrex Direct Off	1O21		1O56	
		1MR22	Pathfinder In 2	1O22		1O57	
		1MR23		1O23		1O58	
		1MR24		1O24		1O59	
				1O25		1O60	
				1O26		1O61	
				1O27		1O62	
				1O28		1O63	
				1O29		1O64	
				1O30		1O65	
				1O31		1O66	
				1O32		1O67	
				1O33	Waverly VS300 Trap	1O68	
				1O34	91.5	1O69	
				1O35		1O70	

DV-216: Outputs

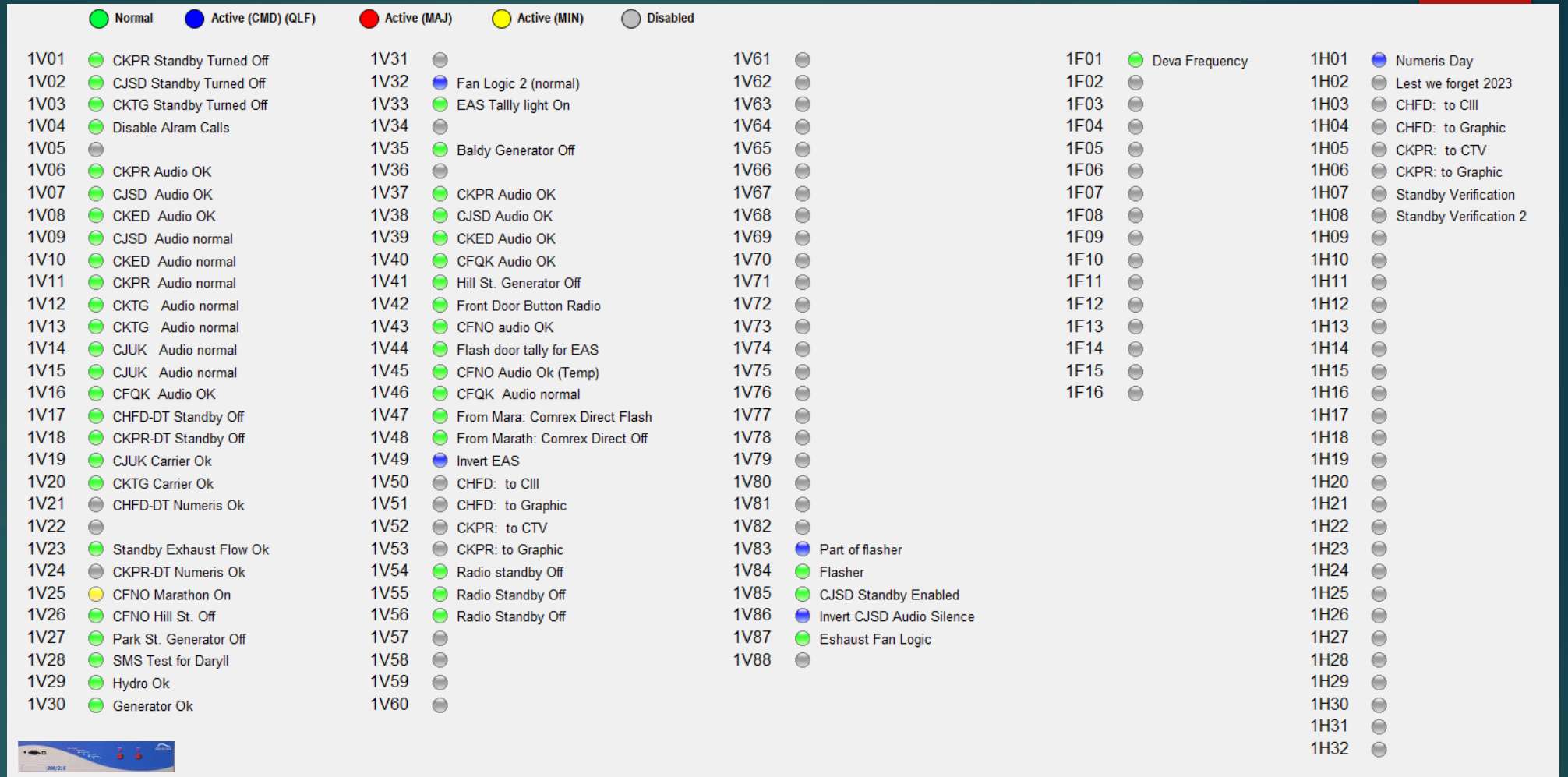
NAB 2023

More Than Remote Site Management

(What we might be doing differently)

dex

dougallmedia



DV-216: Logic gates, Math, Timers

NAB 2023

More Than Remote Site Management

(What we might be doing differently)

dex

dougallmedia

SNMP SETs

	State	ID	Description
	NORMAL	1SS1	CFQK-FM RF On
	NORMAL	1SS2	CFQK-FM RF Off
	NORMAL	1SS5	CFQK-FM Preset 110 W
	NORMAL	1SS6	CFQK-FM Preset 50 W
	NORMAL	1SS7	CFQK-FM Reset Alarms
	NORMAL	1SS8	CJUK-FM RF On
	NORMAL	1SS9	CJUK-FM RF Off
	NORMAL	1SS12	CJUK-FM Preset 297 W
	NORMAL	1SS13	CJUK-FM Preset 100 W
	NORMAL	1SS14	CJUK-FM Reset Alarms
	NORMAL	1SS15	CKPR-FM Turn TX off
	NORMAL	1SS16	CKPR-FM Turn TX On Hi
	NORMAL	1SS17	CKPR-FM Turn TX On Low
	NORMAL	1SS18	CKPR-FM Raise Power
	NORMAL	1SS19	CKPR-FM Lower Power
	NORMAL	1SS20	CKPR-FM Reset Watchman
	NORMAL	1SS21	CFNO-FM RF On
	NORMAL	1SS22	CFNO-FM RF Off
	ACT	1SS25	CFNO-FM Preset 4 kW
	NORMAL	1SS26	CFNO-FM Preset 1.5 kW
	NORMAL	1SS27	CFNO-FM Preset 1.0 kW
	NORMAL	1SS28	CFNO-FM Preset 300 W
	NORMAL	1SS29	CFNO-FM Reset Alarms
	NORMAL	1SS30	CFQK-FM Preset 25 W
	NORMAL	1SS31	CFQK-FM Preset 8 W
	NORMAL	1SS32	CJUK-FM Preset 50 W
	NORMAL	1SS33	CJSD-FM RF On

Cortex: SNMP Set

NAB 2023

More Than Remote Site Management

(What we might be doing differently)

dex

dougallmedia

1SG001	CKPR-FM Forward	1SG041		1SG081	88B Maple Hydro	1SG121	TV Engineering Front 1 Temperature	1SG161	CKPR-FM-2 Preset 240 W	1SG201	Baldy Puregas Pump
1SG002	CJSD-FM Forward	1SG042		1SG082	Hornepayne Hydro	1SG122	TV Engineering Front 2 Temperature	1SG162	CKPR-FM-2 Preset 10 W	1SG202	Hill St. Generator off
1SG003	CKTG-FM Forward	1SG043		1SG083	Beardmore Hydro	1SG123	TV Engineering Front 3 Temperature	1SG163	CJUK-FM Interlock	1SG203	Park St. Generator off
1SG004	CFNO-FM Fortward	1SG044		1SG084	Neys UPS Time Remain	1SG124	TV Engineering Return Temperature	1SG164	CFQK-FM Interlock	1SG204	Neys Antenna Presure
1SG005	CFQK-FM Forward	1SG045		1SG085	Marathon Hydro	1SG125	TV Engineering Exhaust Temperature	1SG165	CFNO-FM-2 Interlock	1SG205	Hill St. Pressure
1SG006	CKED-FM Forward	1SG046		1SG086	Marathon Hydro Time Remaining	1SG126	TV Engineering Intake Temperature	1SG166	CFNO-FM-3 Interlock	1SG206	CKPR-DT Standby Off
1SG007	CKPR-FM-2 Forward	1SG047		1SG087	Hill St. Hydro Phase Red	1SG127	Radio Engineering Temperature	1SG167	Longlac Indoor Tempurature	1SG207	CHFD-DT Standby Off
1SG008	CJUK-FM Forward	1SG048		1SG088	Hill St. Hydro Phase Yellow	1SG128	CFNO-FM CTRL Temperature	1SG168		1SG208	CKPR-DT Main Transmitter On
1SG009	CFNO-FM-2 Forward	1SG049		1SG089	Hill St. Hydro Phase Blue	1SG129	I.T. Intake Temperature	1SG169		1SG209	CKPR-DT Remote Enabled
1SG010	CFNO-FM-3 Forward	1SG050		1SG090	Hill St. Hydro Phase Red	1SG130	Newsroom Temperature	1SG170		1SG210	CHFD-DT Main Transmitter On
1SG011	CKPR-DT Forward	1SG051	CKPR-FM RT	1SG091	Hill St. Hydro Phase Yellow	1SG131	TV Master Control Temperature	1SG171		1SG211	CHFD-DT Remote Enabled
1SG012	CHFD-DT Forward	1SG052	CKPR-FM-2 RT	1SG092	Hill St. Hydro Phase Blue	1SG132	Switch Closet Temperature	1SG172		1SG212	CKPR-FM-2 Exhaust Fan
1SG013	CJUK LED	1SG053	CJSD-FM RT	1SG093	Hill St. Hydro Red - Yellow	1SG133	T.V. Production Temperature	1SG173		1SG213	CKPR-FM-2 Heater
1SG014	CFNO-FM-7 Forward	1SG054	CFNO-FM RT	1SG094	Hill St. Hydro Yellow - Blue	1SG134	Telephone PBX Room Temperature	1SG174		1SG214	CKPR-FM-2 Smoke Detector
1SG015	CFNO-FM-5 Forward	1SG055	CKPR-FM-2 RT	1SG095	Hill St. Hydro Blue - Red	1SG135	TV Engineering Return Humidity	1SG175		1SG215	CKPR-FM-2 RF On
1SG016		1SG056	CFNO-FM-7 RT	1SG096	Hill St. Hydro Total Power	1SG136	TV Engineering Supply Air Temperature	1SG176		1SG216	CKPR-FM-2 Remote Enabled
1SG017		1SG057	CFNO-FM-5 RT	1SG097	Hill St. Hydro Power Consumption	1SG137	Baldy Hydro Phase Red	1SG177		1SG217	CKPR-FM-2 VS300 Alarm Ok
1SG018		1SG058	CFNO-FM-2 RT	1SG098	Hill St. Hydro Total Power	1SG138	Baldy Hydro Phase Black	1SG178		1SG218	CJUK-FM RF On
1SG019		1SG059	CFNO-FM-3 RT	1SG099	Hill St. Hydro Power Factor	1SG139	Baldy Hydro Phase Blue	1SG179		1SG219	CJUK-FM Remote Enabled
1SG020	CKPR-FM Standby Forward	1SG060	CFNO-FM DPS	1SG100	Mt. Baldy Tempurature Upstairs	1SG140	Baldy Hydro Phase Red	1SG180		1SG220	CJUK-FM VS300 Alarm Ok
1SG021	CJSD-FM Standby Forward	1SG061	CJSD-FM DPS	1SG101	Mt. Baldy Temperature Downstairs	1SG141	Baldy Hydro Phase Black	1SG181		1SG221	CJUK-FM Preset 297 W
1SG022	CKTG-FM Standby Forward	1SG062	CKPR-FM DPS	1SG102	Mt. Baldy Tempurature Outside	1SG142	Baldy Hydro Phase Blue	1SG182		1SG222	CJUK-FM Preset 100 W
1SG023	FM Antenna Forward	1SG063	CKPR-FM-2 DPS	1SG103	Neys Indoor Tempurature	1SG143	Baldy Hydro Red - Black	1SG183		1SG223	CJUK-FM Preset 50 W
1SG024	CITB-FM Forward	1SG064	CFNO-FM-7 DPS	1SG104	Neys Outdoor Tempurature	1SG144	Baldy Hydro Black - Blue	1SG184		1SG224	CFQK-FM RF On
1SG025	CKPR-FM Reflected	1SG065	CFNO-FM-5 DPS	1SG105	Kuusisto Indoor Tempurature	1SG145	Baldy Hydro Blue - Red	1SG185		1SG225	CFQK-FM Preset 110 W
1SG026	CJSD-FM Reflected	1SG066	CFQK-FM DPS	1SG106	Nakina Indoor Temperature	1SG146	Baldy Hydro Total Power	1SG186		1SG226	CFQK-FM Preset 50 W
1SG027	CKTG-FM Reflected	1SG067	CFQK-FM RT	1SG107	88B Maple Indoor Tempurature	1SG147	Baldy Hydro Power Consumption	1SG187		1SG227	CFQK-FM Preset 25 W
1SG028	CFNO-FM Reflected	1SG068		1SG108	88B Maple Outdoor Tempurature	1SG148	Baldy Hydro Total Power	1SG188		1SG228	CFQK-FM Preset 8 W
1SG029	CFQK-FM Reflected	1SG069		1SG109	Hornepayne Indoor Tempurature	1SG149	Baldy Hydro Power Factor	1SG189		1SG229	CFQK-FM Remote Enabled
1SG030	CJUK-FM Reflected	1SG070		1SG110	Hornepayne Outdoor Tempurature	1SG150		1SG190		1SG230	CFQK-FM VS300 Alarm Ok
1SG031	CKED-FM Reflected	1SG071		1SG111	Beardmore Indoor Tempurature	1SG151		1SG191		1SG231	CFNO-FM-2 RF Off
1SG032	CKPR-FM-2 Reflected	1SG072		1SG112	Beardmore Outdoor Tempurature	1SG152	CKPR-FM Interlock	1SG192		1SG232	CFNO-FM-2 Preset 310 W
1SG033	CKPR-DT Reflected	1SG073	CFNO-FM-2 DPS	1SG113	Marathon Sat Room 2 Tempurature	1SG153	CJSD-FM Interlock	1SG193		1SG233	CFNO-FM-2 Preset 100 W
1SG034	CHFD-DT Reflected	1SG074	CFNO-FM-3 DPS	1SG114	Marathon Rack Room 2 Tempurature	1SG154	CKTG-FM Interlock	1SG194		1SG234	CFNO-FM-2 Preset 50 W
1SG035	CFNO-FM-2 Reflected	1SG075	Mt. Baldy Hydro Phase Black	1SG115	CJSD-FM CTRL Temperature	1SG155	CFNO-FM Interlock	1SG195		1SG235	CFNO-FM-2 Preset 10 W
1SG036	CFNO-FM-3 Reflected	1SG076	Mt. Baldy Hydro Phase Red	1SG116	CKPR-FM CTRL Temperature	1SG156	CKPR-DT Interlock 1	1SG196		1SG236	CFNO-FM-2 On Local
1SG037	FM Antenna Reflected	1SG077	Mt. Baldy Hydro Phase Blue	1SG117	CFQK-FM CTRL Temperature	1SG157	CKPR-DT Interlock 2	1SG197		1SG237	CFNO-FM-2 VS300 On Alarm
1SG038	CFNO-FM-7 Reflected	1SG078	Neys Hydro	1SG118	Rack Room 1 Temperature	1SG158	CHFD-DT Interlock 1	1SG198		1SG238	CKPR-FM Remote Enabled
1SG039	CFNO-FM-5 Reflected	1SG079	Waverly Hydro	1SG119	I.T. Exhaust Temperature	1SG159	CHFD-DT Interlock 2	1SG199		1SG239	CKPR-FM High Output On
1SG040		1SG080	Kuusisto Hydro	1SG120	PBX Room Tempurature	1SG160	CKPR-FM-2 Interlock	1SG200	Mt. Baldy Generator off	1SG240	CKPR-FM Low Output Off

Cortex: SNMP Gets

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More Than Remote Site Management

(What we might be doing differently)

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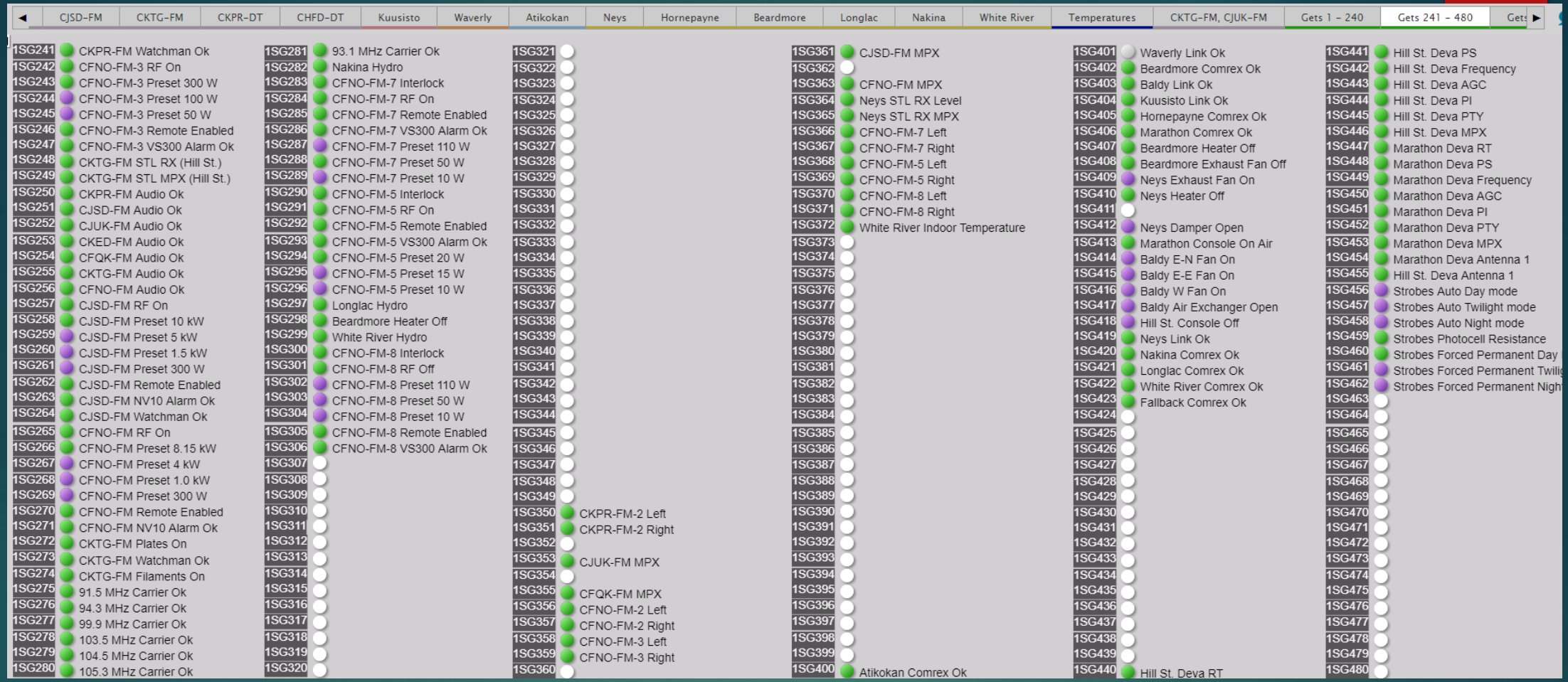

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1SS001	CFQK-FM RF On	1SS041	CJSD-FM Reset Alarms	1SS081	Hill St. Deva 94.3 MHz	1SS121	CFNO-FM-8 Preset 10 W	1SS161	1SS201
1SS002	CFQK-FM RF Off	1SS042	CKPR-FM-2 RF On	1SS082	Hill St. Deva 99.9 MHz	1SS122	CFNO-FM-8 Reset Alarms	1SS162	1SS202
1SS003		1SS043	CKPR-FM-2 RF Off	1SS083	Hill St. Deva 103.5 MHz	1SS123	Turn CFNO-FM-3 Fan On	1SS163	1SS203
1SS004		1SS044		1SS084	Hill St. Deva 104.5 MHz	1SS124	Turn CFNO-FM-3 Fan Off	1SS164	1SS204
1SS005	CFQK-FM Preset 110 W	1SS045		1SS085	Hill St. Deva 105.3 MHz	1SS125	Turn CFNO-FM-3 Heater On	1SS165	1SS205
1SS006	CFQK-FM Preset 50 W	1SS046	CKPR-FM-2 Preset 240 W	1SS086	Marathon Deva Antenna 1	1SS126	Turn CFNO-FM-3 Heater Off	1SS166	1SS206
1SS007	CFQK-FM Reset Alarms	1SS047	CKPR-FM-2 Preset 10 W	1SS087	Marathon Deva 93.1 MHz	1SS127		1SS167	1SS207
1SS008	CJUK-FM RF On	1SS048	CKPR-FM-2 Reset Alarms	1SS088	Marathon Deva 102.3 MHz	1SS128		1SS168	1SS208
1SS009	CJUK-FM RF Off	1SS049	CKTG-FM Turn Plates On	1SS089	Marathon Deva 107.5 MHz	1SS129		1SS169	1SS209
1SS010		1SS050	CKTG-FM Turn Plates Off	1SS090	Test for Andrew	1SS130		1SS170	1SS210
1SS011		1SS051	CKTG-FM Turn Filaments On	1SS091	Turn CJUK-FM LED Off	1SS131		1SS171	1SS211
1SS012	CJUK-FM Preset 297 W	1SS052	CKTG-FM Turn Filaments Off	1SS092	Turn CKTG-FM LED Off	1SS132		1SS172	1SS212
1SS013	CJUK-FM Preset 100 W	1SS053	CKTG-FM Raise Power	1SS093	Turn CJUK-FM LED On	1SS133		1SS173	1SS213
1SS014	CJUK-FM Reset Alarms	1SS054	CKTG-FM Lower Power	1SS094	Turn CKTG-FM LED On	1SS134		1SS174	1SS214
1SS015	CKPR-FM Turn TX off	1SS055	CKTG-FM Reset Watchman	1SS095	Marathon Davicom Enable Alarm Calls	1SS135		1SS175	1SS215
1SS016	CKPR-FM Turn TX On Hi	1SS056	CJSD-FM Reset Watchman	1SS096	Marathon Davicom Disable Alarm Calls	1SS136		1SS176	1SS216
1SS017	CKPR-FM Turn TX On Low	1SS057	CKPR-DT Turn On	1SS097	CFNO-FM-7 RF On	1SS137		1SS177	1SS217
1SS018	CKPR-FM Raise Power	1SS058	CKPR-DT Turn Off	1SS098	CFNO-FM-7 RF Off	1SS138		1SS178	1SS218
1SS019	CKPR-FM Lower Power	1SS059	CHFD-DT Turn On	1SS099	CFNO-FM-8 Preset 110 W	1SS139		1SS179	1SS219
1SS020	CKPR-FM Reset Watchman	1SS060	CHFD-DT Turn Off	1SS100	CFNO-FM-8 Preset 50 W	1SS140		1SS180	1SS220
1SS021	CFNO-FM RF On	1SS061	CFNO-FM-2 RF On	1SS101	CFNO-FM-7 Preset 110 W	1SS141		1SS181	1SS221
1SS022	CFNO-FM RF Off	1SS062	CFNO-FM-2 RF Off	1SS102	CFNO-FM-7 Preset 50 W	1SS142		1SS182	1SS222
1SS023		1SS063		1SS103	CFNO-FM-7 Preset 10 W	1SS143		1SS183	1SS223
1SS024		1SS064		1SS104	CFNO-FM-7 Reset Alarms	1SS144		1SS184	1SS224
1SS025	CFNO-FM Preset 8.15 kW	1SS065	CFNO-FM-2 Preset 310 W	1SS105	Hill St. Davicom Enable Alarm Calls	1SS145		1SS185	1SS225
1SS026	CFNO-FM Preset 4 kW	1SS066	CFNO-FM-2 Preset 100 W	1SS106	Hill St. Davicom Disable Alarm Calls	1SS146		1SS186	1SS226
1SS027	CFNO-FM Preset 1.0 kW	1SS067	CFNO-FM-2 Preset 50 W	1SS107	CFNO-FM-5 RF On	1SS147		1SS187	1SS227
1SS028	CFNO-FM Preset 300 W	1SS068	CFNO-FM-2 Preset 10 W	1SS108	CFNO-FM-5 RF Off	1SS148		1SS188	1SS228
1SS029	CFNO-FM Reset Alarms	1SS069	CFNO-FM-2 Reset Alarms	1SS109	CFNO-FM-5 Preset 20 W	1SS149		1SS189	1SS229
1SS030	CFQK-FM Preset 25 W	1SS070	CFNO-FM-3 RF On	1SS110	CFNO-FM-5 Preset 15 W	1SS150		1SS190	1SS230
1SS031	CFQK-FM Preset 8 W	1SS071	CFNO-FM-3 RF Off	1SS111	CFNO-FM-5 Preset 10 W	1SS151		1SS191	1SS231
1SS032	CJUK-FM Preset 50 W	1SS072		1SS112	CFNO-FM-8 RF On	1SS152		1SS192	1SS232
1SS033	CJSD-FM RF On	1SS073		1SS113	CFNO-FM-8 RF Off	1SS153		1SS193	1SS233
1SS034	CJSD-FM RF Off	1SS074	CFNO-FM-3 Preset 300 W	1SS114	CFNO-FM-5 Reset Alarms	1SS154		1SS194	1SS234
1SS035		1SS075	CFNO-FM-3 Preset 100 W	1SS115	Neys Davicom Enable Alarm Calls	1SS155		1SS195	1SS235
1SS036		1SS076	CFNO-FM-3 Preset 50 W	1SS116	Neys Davicom Disable Alarm Calls	1SS156		1SS196	1SS236
1SS037	CJSD-FM Preset 10 kW	1SS077	CFNO-FM-3 Reset Alarms	1SS117	Baldy Davicom Enable Alarm Calls	1SS157		1SS197	1SS237
1SS038	CJSD-FM Preset 5 kW	1SS078	Hill St. Deva Antenna 1	1SS118	Baldy Davicom Disable Alarm Calls	1SS158		1SS198	1SS238
1SS039	CJSD-FM Preset 1.5 kW	1SS079	Hill St. Deva Antenna 2	1SS119	Atikokan Davicom Enable Alarm Calls	1SS159		1SS199	1SS239
1SS040	CJSD-FM Preset 300 W	1SS080	Hill St. Deva 91.5 MHz	1SS120	Atikokan Davicom Disable Alarm Calls	1SS160		1SS200	1SS240

Cortex: SNMP Sets

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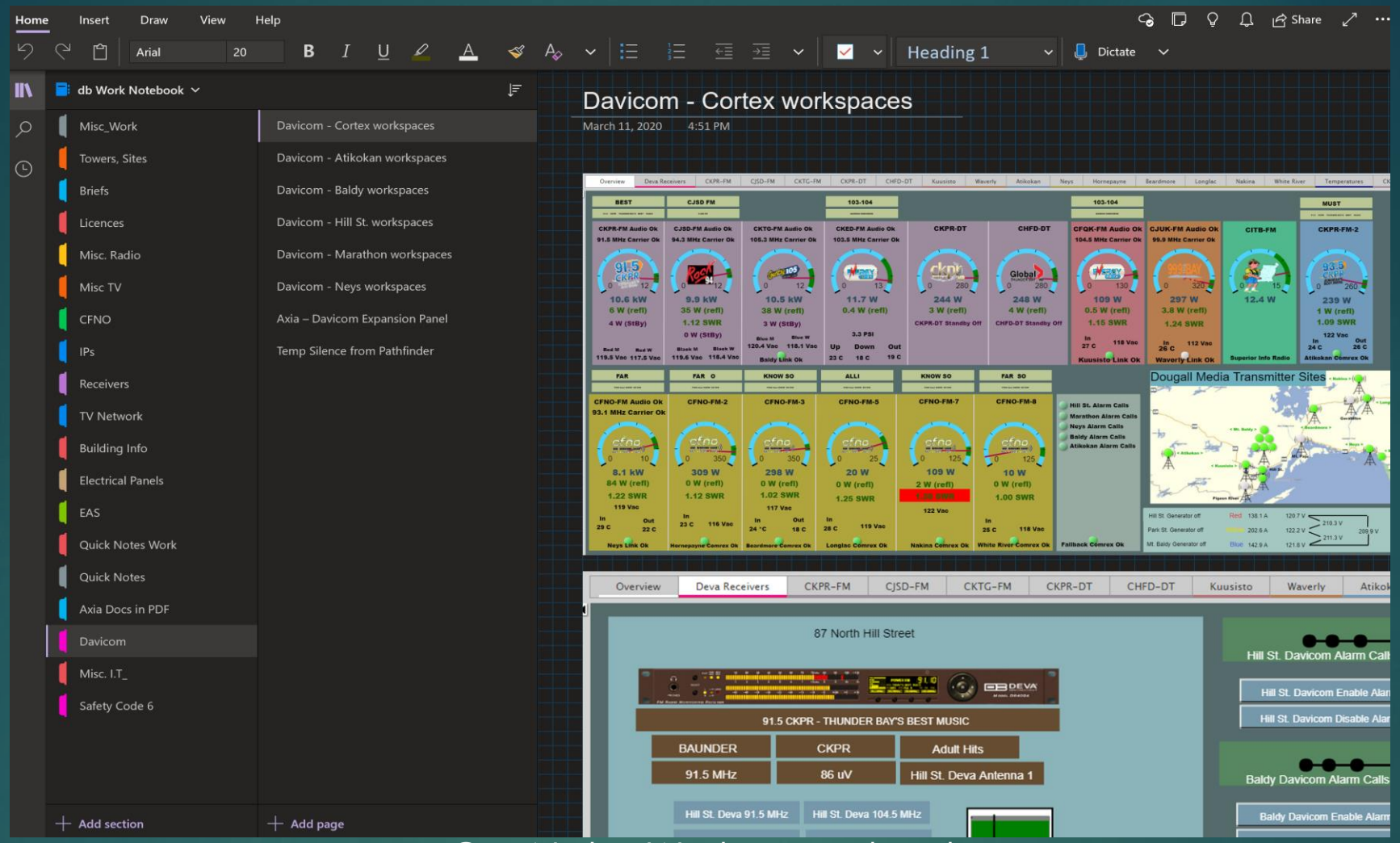

OneNote: Workspace backups

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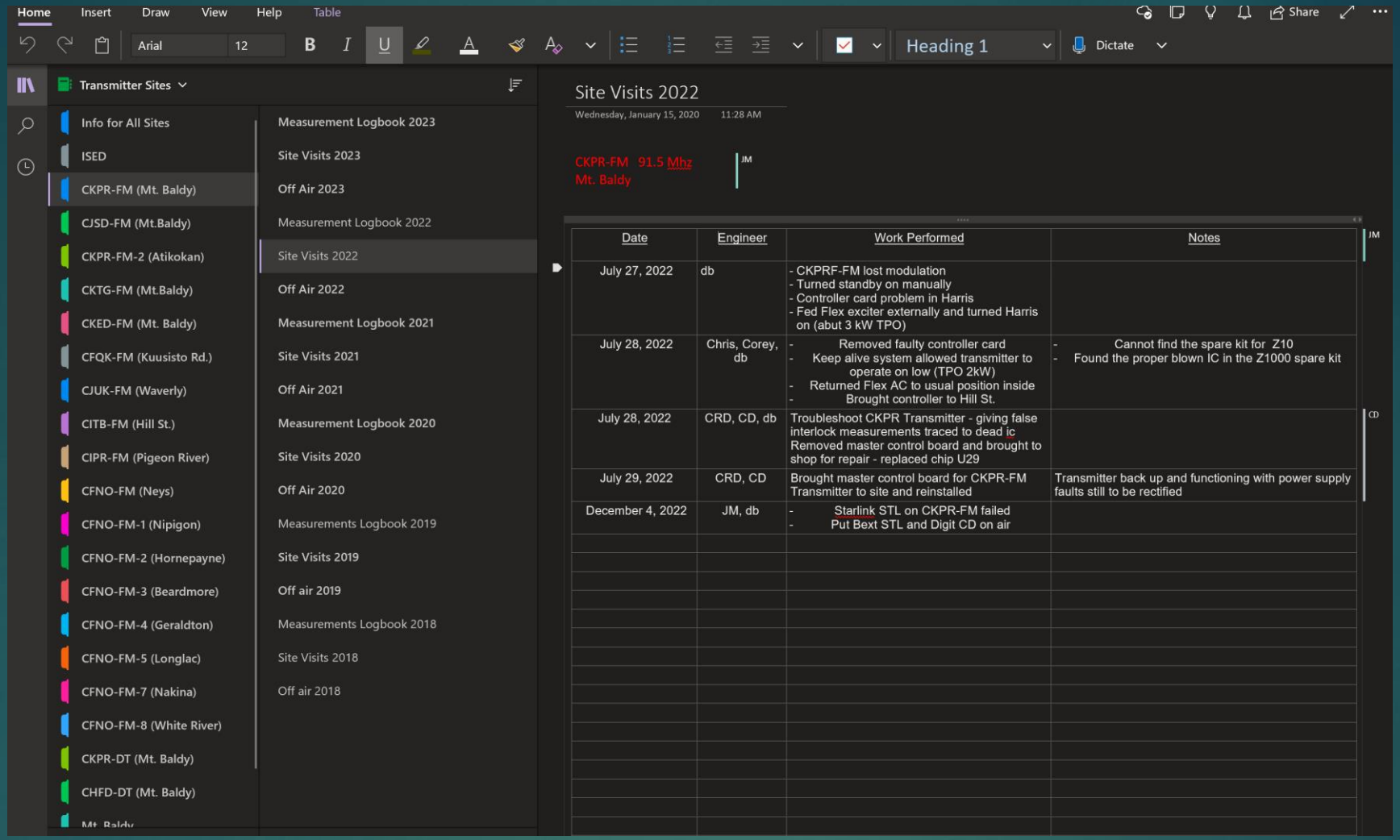
(What we might be doing differently)



OneNote: Site logbook

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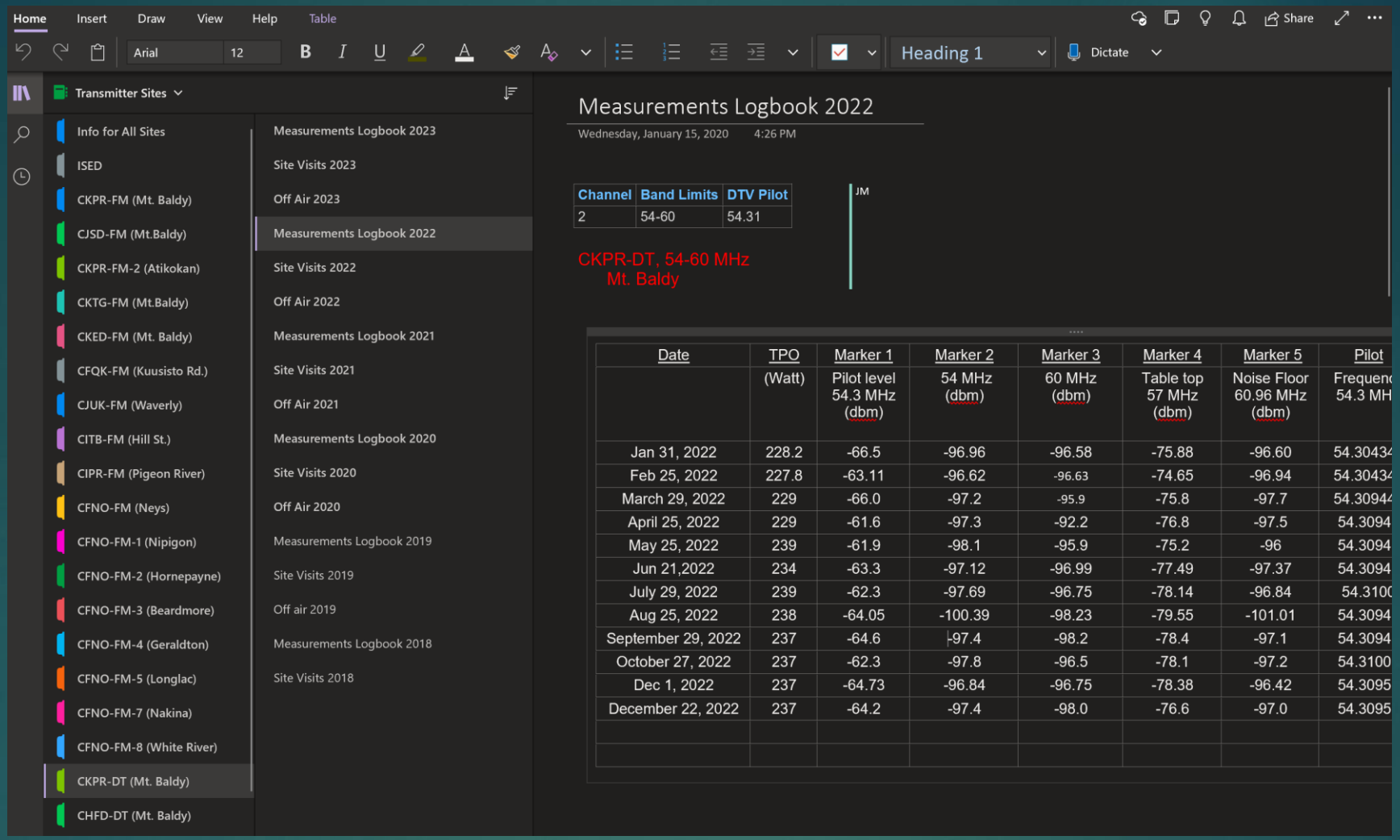
(What we might be doing differently)



OneNote: Measurements logbook

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Thank You

Denis.Barriault@dougallmedia.com

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