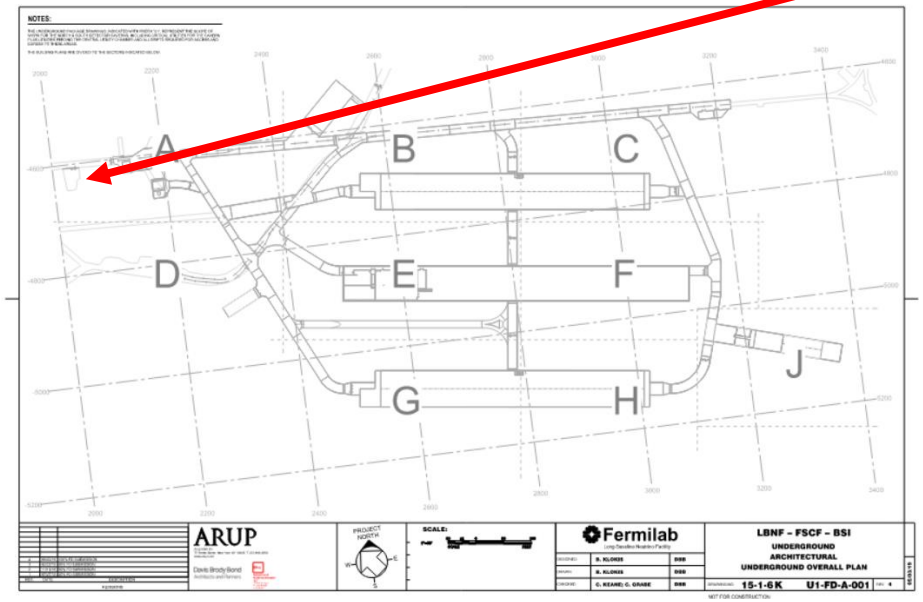
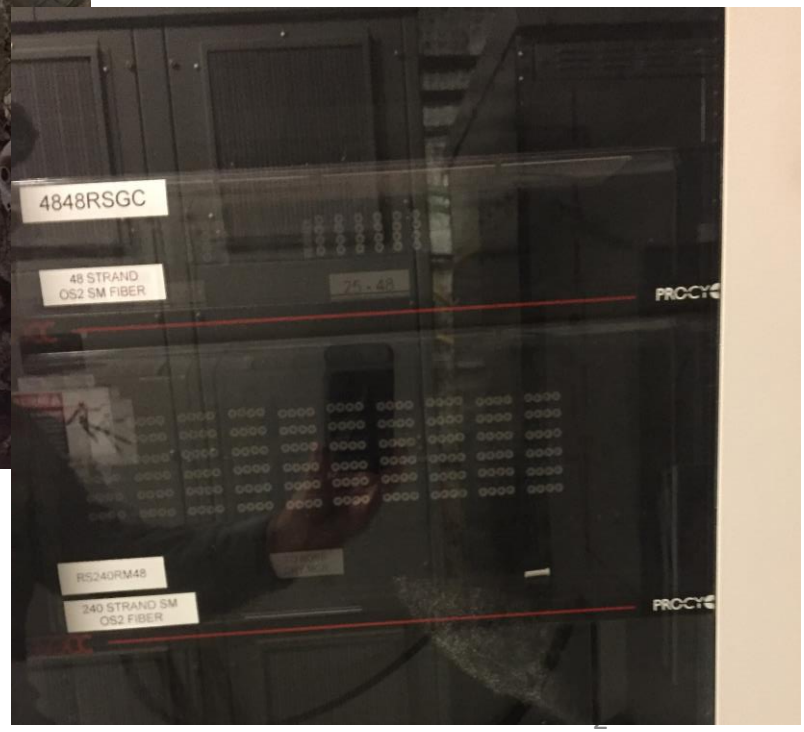
Update of items from networking meeting

Current fiber status - Ross

- Ross underground – 192 strands of fiber routed to the “roll up room” west of the Ross shaft at 4850



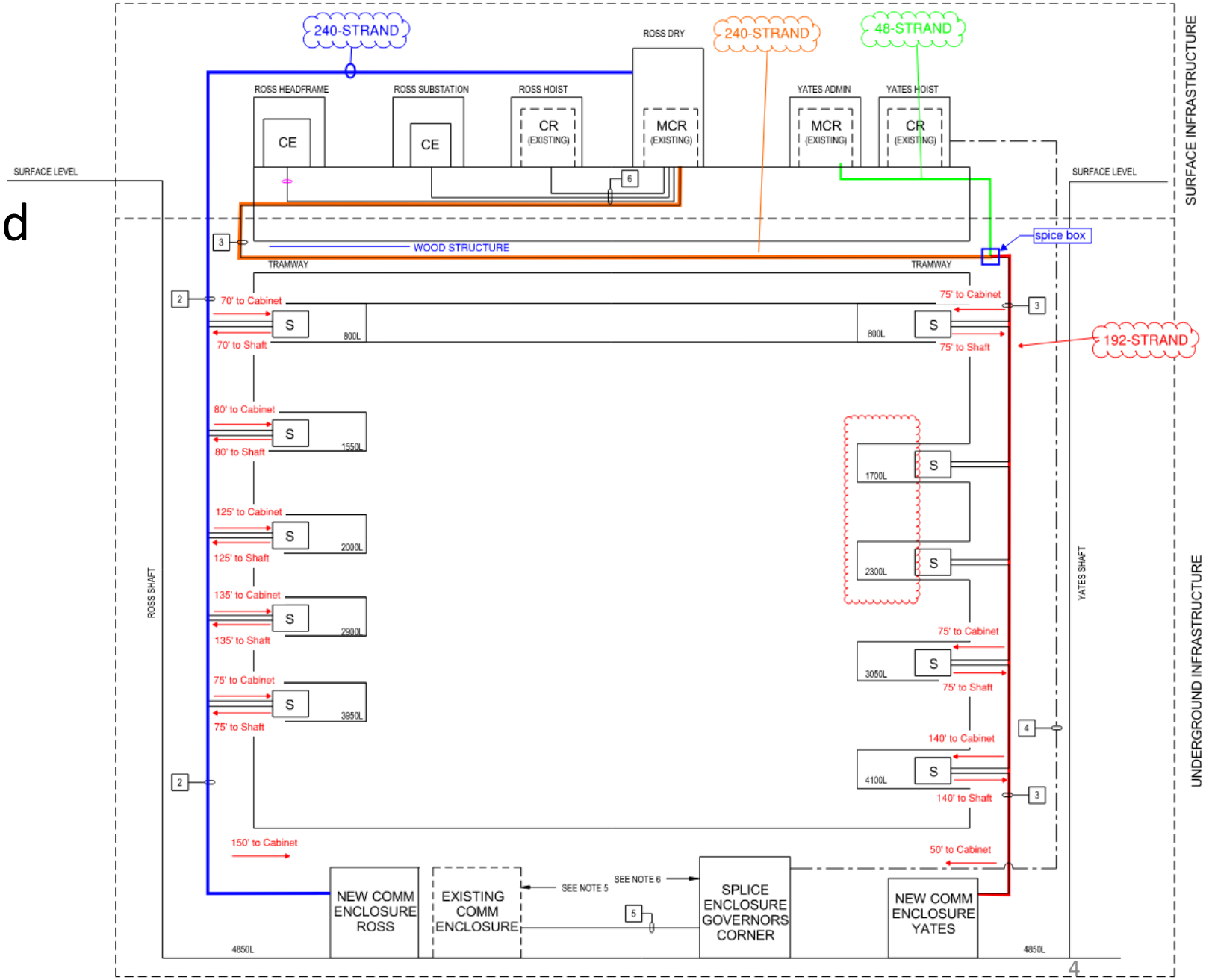


Current fiber status - Yates

- Yates underground – 192 strands routed from surface to similar enclosure near the Yates shaft at 4850

Fiber status

- The is a schematic of what has been installed and tested



Example10 % test results

LinkWare™ Live

Cable ID	Summary	Test Limit	Length	Headroom	Date / Time
MCR TO ROSS 4850 ROLL UP 1-3	PASS	TIA-568.3-D-1 Singlemode ISP (STD)	6570 ft	3.18 dB (Loss Margin)	09/16/2020 08:22:01 AM
MCR TO ROSS 4850 ROLL UP 1-4	PASS	TIA-568.3-D-1 Singlemode ISP (STD)	6570 ft	3.00 dB (Loss Margin)	09/16/2020 08:20:48 AM
MCR TO ROSS 4850 ROLL UP 10-7	PASS	TIA-568.3-D-1 Singlemode ISP (STD)	6668 ft	3.35 dB (Loss Margin)	09/16/2020 08:40:49 AM
MCR TO ROSS 4850 ROLL UP 10-8	PASS	TIA-568.3-D-1 Singlemode ISP (STD)	6668 ft	3.24 dB (Loss Margin)	09/16/2020 08:40:33 AM
MCR TO ROSS 4850 ROLL UP 11-3	PASS	TIA-568.3-D-1 Singlemode ISP (STD)	6668 ft	2.94 dB (Loss Margin)	09/16/2020 08:41:53 AM
MCR TO ROSS 4850 ROLL UP 11-4	PASS	TIA-568.3-D-1 Singlemode ISP (STD)	6668 ft	3.25 dB (Loss Margin)	09/16/2020 08:41:38 AM
MCR TO ROSS 4850 ROLL UP 11-7	PASS	TIA-568.3-D-1 Singlemode ISP (STD)	6668 ft	3.27 dB (Loss Margin)	09/16/2020 08:43:29 AM
MCR TO ROSS 4850 ROLL UP 11-8	PASS	TIA-568.3-D-1 Singlemode ISP (STD)	6668 ft	3.21 dB (Loss Margin)	09/16/2020 08:43:14 AM
MCR TO ROSS 4850 ROLL UP 12-5	PASS	TIA-568.3-D-1 Singlemode ISP (STD)	6668 ft	3.19 dB (Loss Margin)	09/16/2020 08:44:49 AM
MCR TO ROSS 4850 ROLL UP 12-6	PASS	TIA-568.3-D-1 Singlemode ISP (STD)	6668 ft	3.21 dB (Loss Margin)	09/16/2020 08:44:26 AM
MCR TO ROSS 4850 ROLL UP 14-11	PASS	TIA-568.3-D-1 Singlemode ISP (STD)	6668 ft	3.27 dB (Loss Margin)	09/16/2020 08:46:00 AM
MCR TO ROSS 4850 ROLL UP 14-12	PASS	TIA-568.3-D-1 Singlemode ISP (STD)	6668 ft	3.22 dB (Loss Margin)	09/16/2020 08:45:43 AM
MCR TO ROSS 4850 ROLL UP 16-7	PASS	TIA-568.3-D-1 Singlemode ISP (STD)	6668 ft	3.00 dB (Loss Margin)	09/16/2020 08:47:08 AM

Example 10 % test results

LinkWare™ Live

Cable ID	Summary	Test Limit	Length	Headroom	Date / Time
MCR TO YATES 4850 16-5	PASS	TIA-568.3-D-1 Singlemode ISP (STD)	10414 ft	3.85 dB (Loss Margin)	09/16/2020 11:41:44 AM
MCR TO YATES 4850 16-6	PASS	TIA-568.3-D-1 Singlemode ISP (STD)	10414 ft	3.84 dB (Loss Margin)	09/16/2020 11:41:21 AM
MCR TO YATES 4850 5-7	PASS	TIA-568.3-D-1 Singlemode ISP (STD)	10364 ft	3.98 dB (Loss Margin)	09/16/2020 11:59:35 AM
MCR TO YATES 4850 5-8	PASS	TIA-568.3-D-1 Singlemode ISP (STD)	10364 ft	3.92 dB (Loss Margin)	09/16/2020 11:59:16 AM
MCR TO YATES 4850 6-10	PASS	TIA-568.3-D-1 Singlemode ISP (STD)	10363 ft	4.08 dB (Loss Margin)	09/16/2020 11:58:27 AM
MCR TO YATES 4850 6-9	PASS	TIA-568.3-D-1 Singlemode ISP (STD)	10363 ft	4.06 dB (Loss Margin)	09/16/2020 11:58:45 AM
MCR TO YATES 4850 7-10	PASS	TIA-568.3-D-1 Singlemode ISP (STD)	10414 ft	3.79 dB (Loss Margin)	09/16/2020 11:56:44 AM
MCR TO YATES 4850 7-5	PASS	TIA-568.3-D-1 Singlemode ISP (STD)	10413 ft	3.97 dB (Loss Margin)	09/16/2020 11:57:50 AM
MCR TO YATES 4850 7-6	PASS	TIA-568.3-D-1 Singlemode ISP (STD)	10413 ft	3.92 dB (Loss Margin)	09/16/2020 11:57:33 AM
MCR TO YATES 4850 7-9	PASS	TIA-568.3-D-1 Singlemode ISP (STD)	10414 ft	3.95 dB (Loss Margin)	09/16/2020 11:57:03 AM
MCR TO YATES 4850 8-1	PASS	TIA-568.3-D-1 Singlemode ISP (STD)	10415 ft	3.89 dB (Loss Margin)	09/16/2020 11:55:29 AM
MCR TO YATES 4850 8-2	PASS	TIA-568.3-D-1 Singlemode ISP (STD)	10415 ft	3.98 dB (Loss Margin)	09/16/2020 11:55:11 AM
MCR TO YATES 4850 9-10	PASS	TIA-568.3-D-1 Singlemode ISP (STD)	10414 ft	4.05 dB (Loss Margin)	09/16/2020 11:52:28 AM
MCR TO YATES 4850 9-3	PASS	TIA-568.3-D-1 Singlemode ISP (STD)	10414 ft	3.88 dB (Loss Margin)	09/16/2020 11:54:41 AM

Standby power after UPS expires

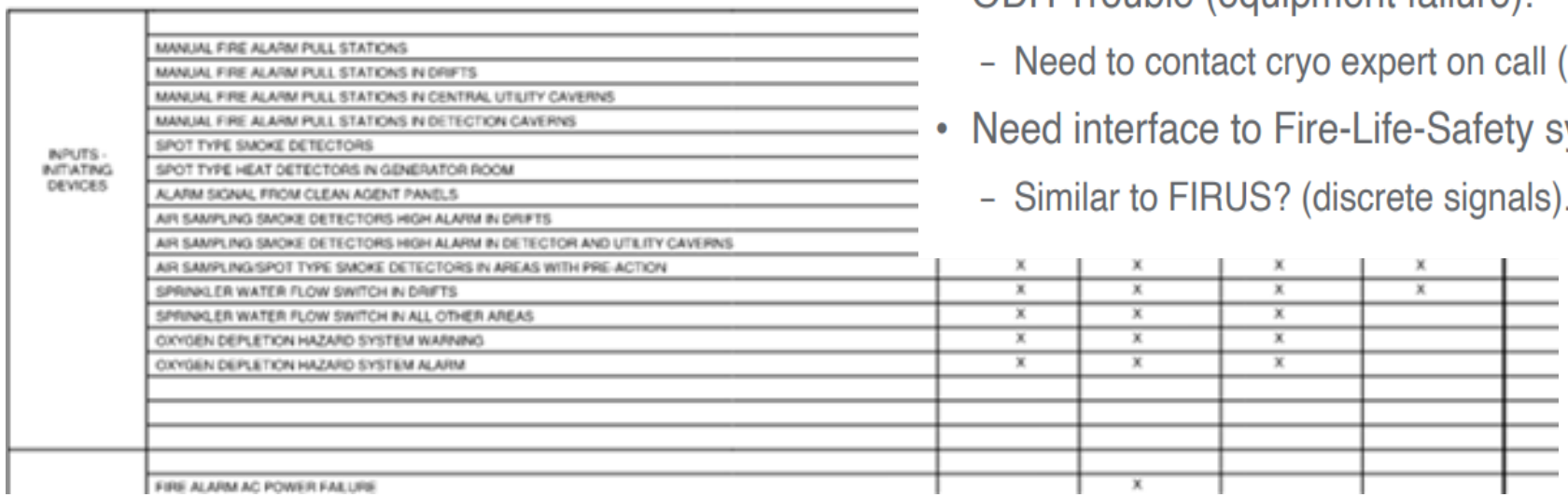
- Surface standby power – if we introduce a Change Request to add the capability to switch to standby power after the UPS expires, how much power would be needed?
- Probably need the same information for the underground CUC room
- I assumed this is only for networking equipment and no computing equipment

Building Management System

- I’ve posted the specifications and drawings for the 90% redesign to the indico page

Cryogenic system integration

- Some of the cryogenic interfaces with FLS system are already planned
- Others can be easily integrated



INPUTS - INITIATING DEVICES						
	MANUAL FIRE ALARM PULL STATIONS					
	MANUAL FIRE ALARM PULL STATIONS IN DRIFTS					
	MANUAL FIRE ALARM PULL STATIONS IN CENTRAL UTILITY CAVERNS					
	MANUAL FIRE ALARM PULL STATIONS IN DETECTION CAVERNS					
	SPOT TYPE SMOKE DETECTORS					
	SPOT TYPE HEAT DETECTORS IN GENERATOR ROOM					
	ALARM SIGNAL FROM CLEAN AGENT PANELS					
	AIR SAMPLING SMOKE DETECTORS HIGH ALARM IN DRIFTS					
	AIR SAMPLING SMOKE DETECTORS HIGH ALARM IN DETECTOR AND UTILITY CAVERNS					
	AIR SAMPLING/SPOT TYPE SMOKE DETECTORS IN AREAS WITH PRE-ACTION	X	X	X	X	
	SPRINKLER WATER FLOW SWITCH IN DRIFTS	X	X	X	X	
	SPRINKLER WATER FLOW SWITCH IN ALL OTHER AREAS	X	X	X		
	OXYGEN DEPLETION HAZARD SYSTEM WARNING	X	X	X		
	OXYGEN DEPLETION HAZARD SYSTEM ALARM	X	X	X		
	FIRE ALARM AC POWER FAILURE		X			

ODH System – Alarm Enunciation to Fire-Life-Safety System

- ODH Emergency (O2 < 19.5%):
  - Lights and horns.
  - Sends Emergency Response Team (ERT) dispatch signal to FLS.
  - Sends evacuation signal to FLS (underground evacuation).
- ODH Trouble (equipment failure):
  - Need to contact cryo expert on call (Ignition directly + FLS/dispatch).
- Need interface to Fire-Life-Safety system:
  - Similar to FIRUS? (discrete signals).

Backups

Communication Enclosure

PANDUIT

Panduit PanZone cabinet – 12U

Mfg Part: PZWMC12W | CDW Part: 5242854 | UNSPSC: 24102001

Availability: 5–7 days
Orders placed today will ship within 5–7 days
Order fulfilled by a CDW partner

Was $770.40 SAVE $253.41
$516.99 Advertised Price

Claim Your 5% Discount
Create an account to get My CDW Advantage today.

1 Add to Cart

Lease Option ($15.62/month)

Product Details

- Cabinet

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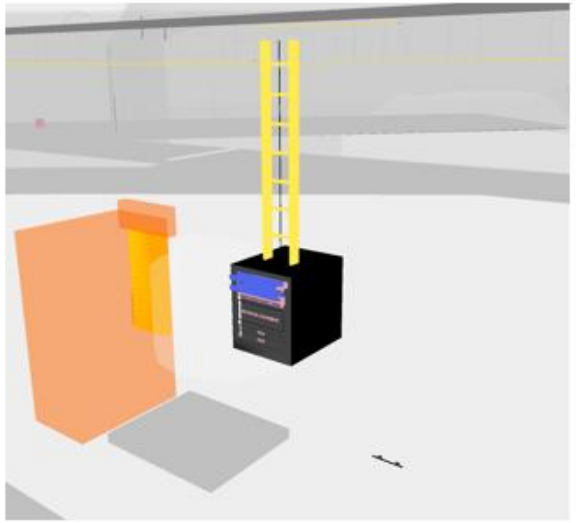

The CE are specified to be 12U enclosures. The lower image is how they are shown in the model.