

Floodproofing of Lock Control Stands

Locks 16, 17, 18, 20, 21 and 22
February 2012



US Army Corps of Engineers
BUILDING STRONG®



Typical Lock and Dam, MVR Mississippi River



Elevating Control Stands

- Why?
 - ▶ Past high water events dictate the need for elevating the control stands
 - ▶ Raising the control stands also provides better sight lines for locking
 - ▶ Provides opportunity for consistent design of control stand layout





BUILDING STRONG®



BUILDING STRONG®



BUILDING STRONG®



BUILDING STRONG®



BUILDING STRONG®



BUILDING STRONG®



BUILDING STRONG®



BUILDING STRONG®



BUILDING STRONG®











BUILDING STRONG®



BUILDING STRONG®



BUILDING STRONG®



BUILDING STRONG®

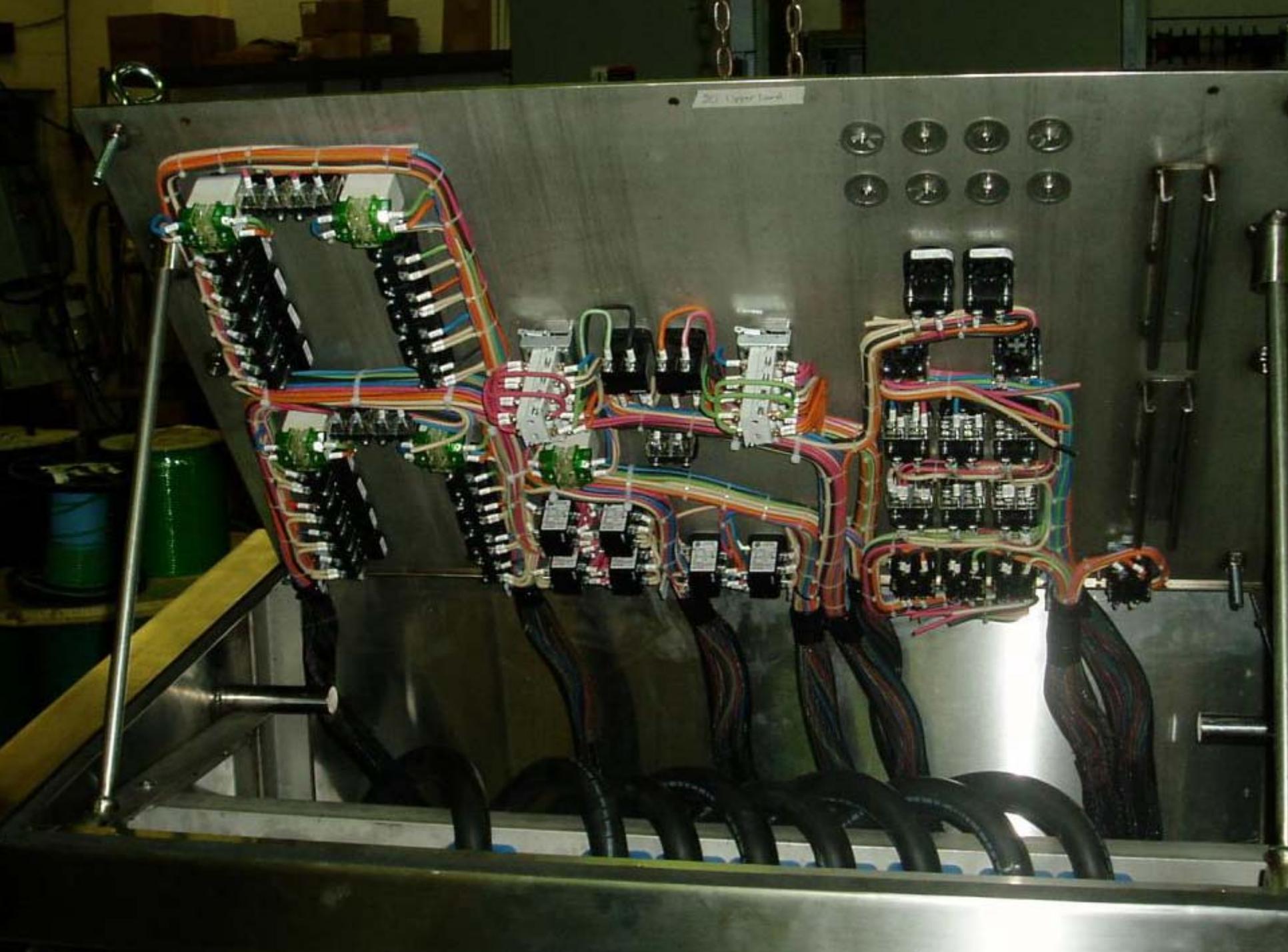


BUILDING STRONG®









Cable Penetrations and Basement Flood Proofing

- Why?
- Water leaks into basements of CCS building through the cable penetrations





BUILDING STRONG®



BUILDING STRONG®



BUILDING STRONG®

Cable Penetrations and Basement Flood Proofing

- How?
 - ▶ Through the installation of critical cable sleeves for critical cables.
 - ▶ Through the installation of Thru-Wall Barriers for non-critical cables.



Critical Cable Sleeves

Critical Cables- “must have” cables during the project, i.e. CCS, Maintenance Building, Dam
(be specific!)

-Pre-Construction Process





BUILDING STRONG®



BUILDING STRONG®



BUILDING STRONG®

Thru Wall Barrier

Non-critical Cables- cables not needed during the project, i.e., Land Wall Lighting, Visitor Center, Old Generator Building





BUILDING STRONG®



01

425

3

26

42



Lock and Dam 11



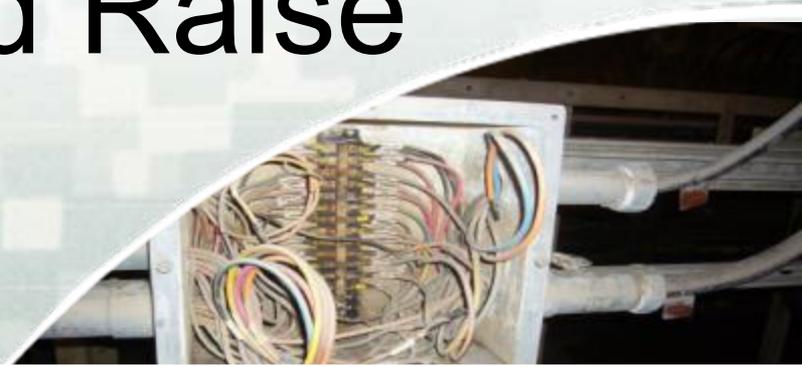
BUILDING STRONG®

Lock and Dam 11



I-Wall Control Stand Raise

February 2012



US Army Corps of Engineers
BUILDING STRONG®



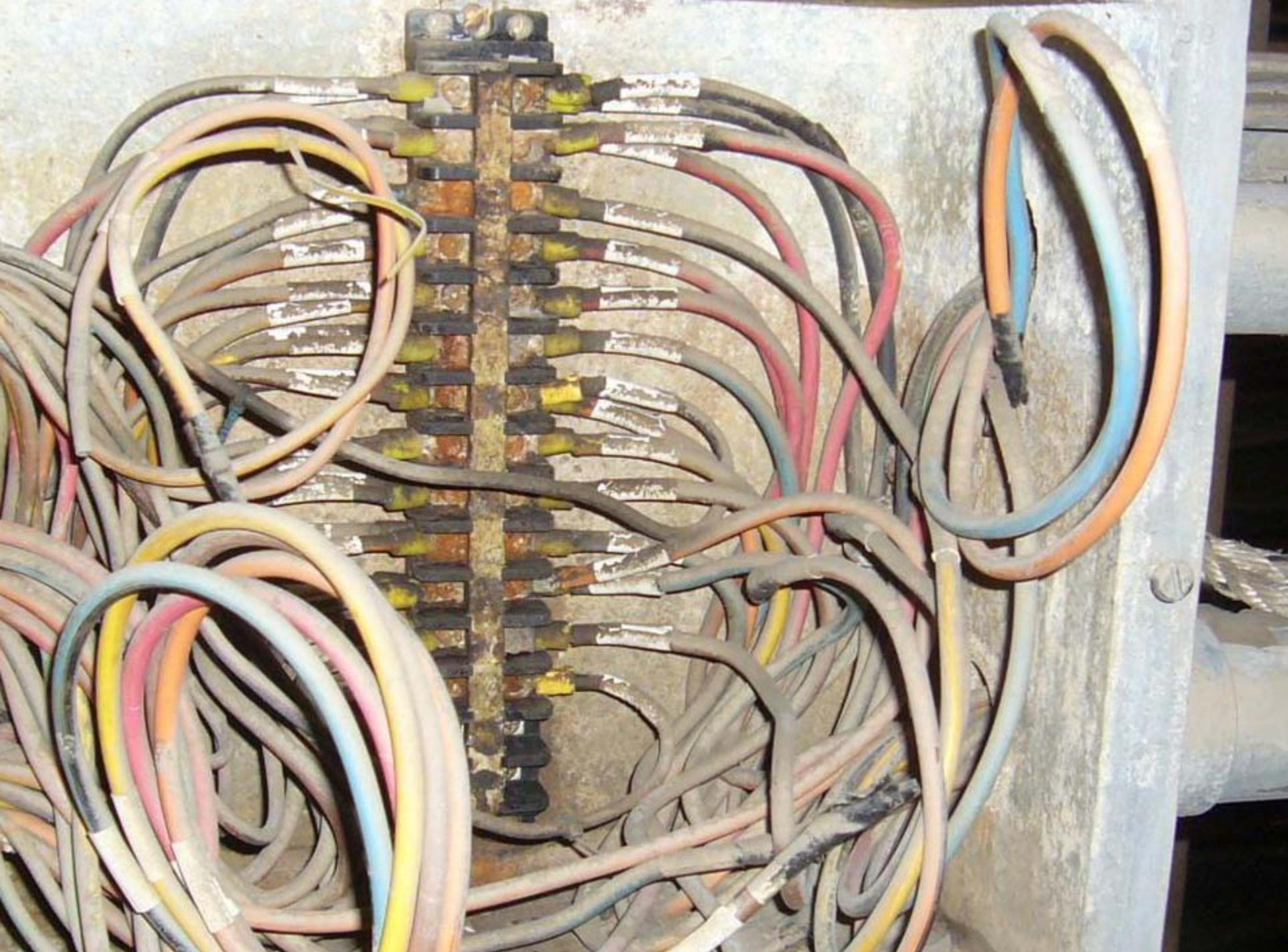
06/08/2011 14:32

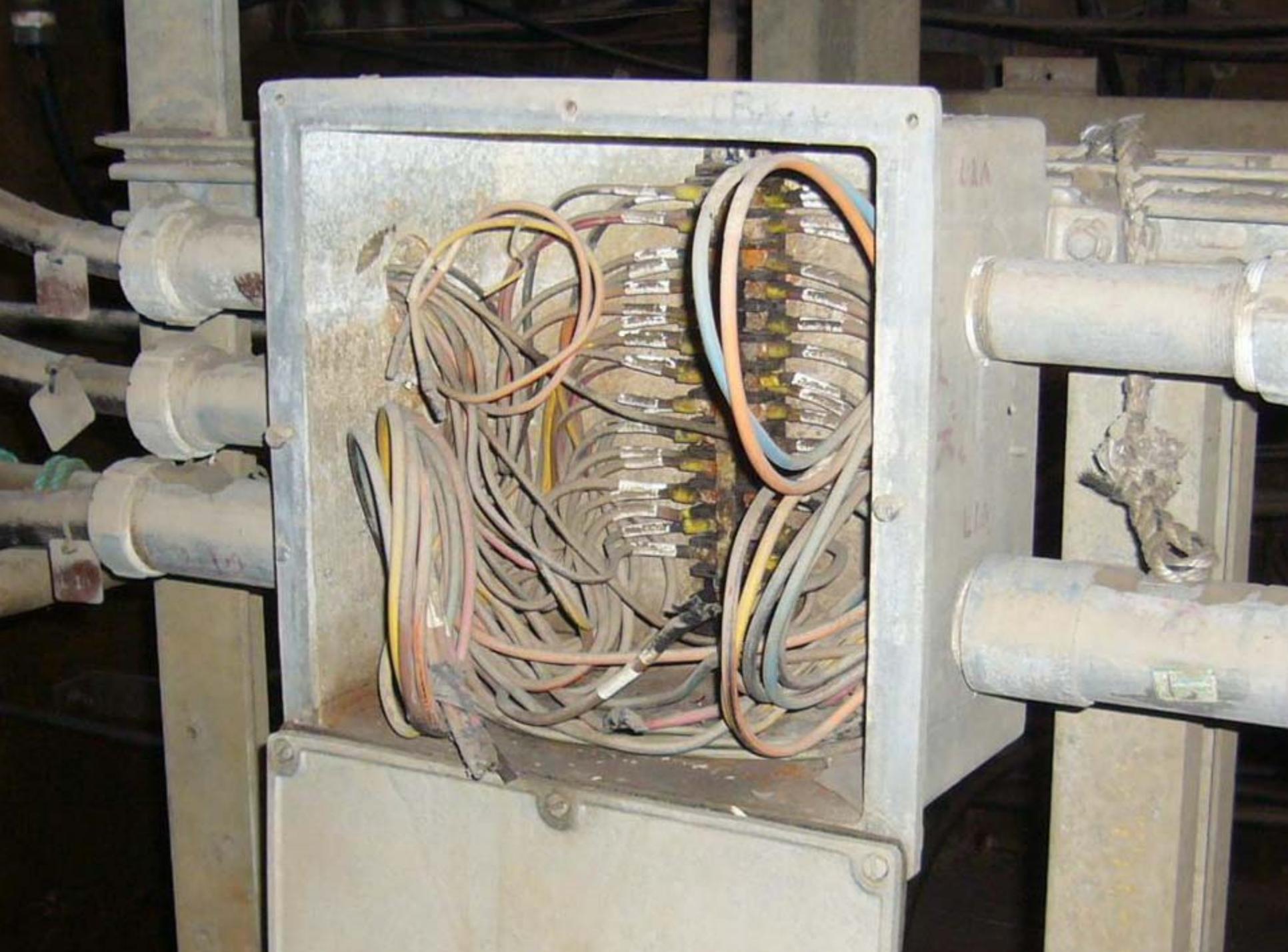


06/08/2011 14:32



06/08/2011 14:49







06/02/2011 10:18



06/01/2011 10:14



06/02/2011 10:14



BUILDING STRONG®



BUILDING STRONG®





071 6511







STRONG®

TD3 JBD URVALVE TD4

TF3 UPPER R-GATE
JBF



TF4



TF5



LOWER R GATE

LOWER R VALVE
JBA

TA4

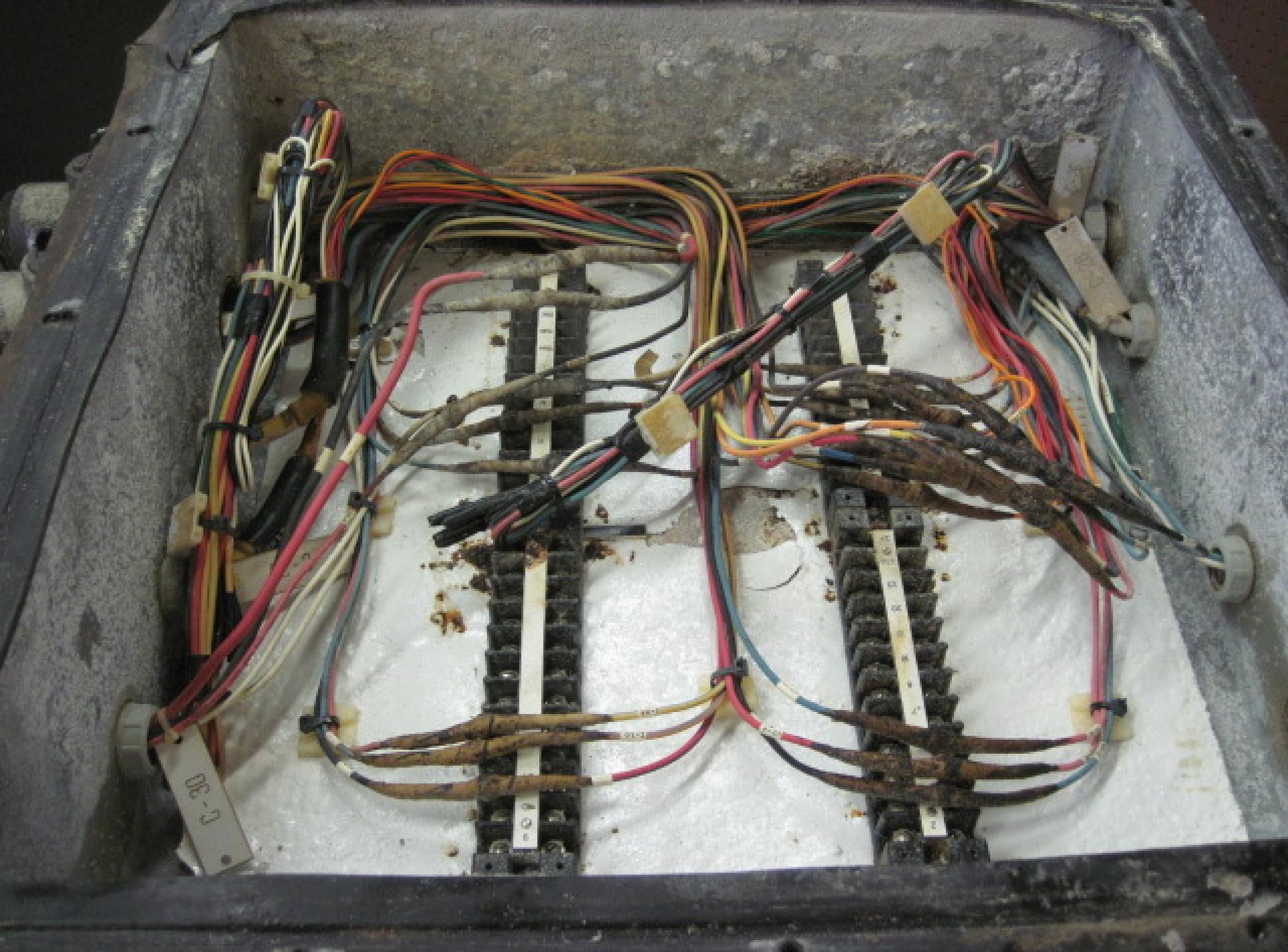


TA5



TA3



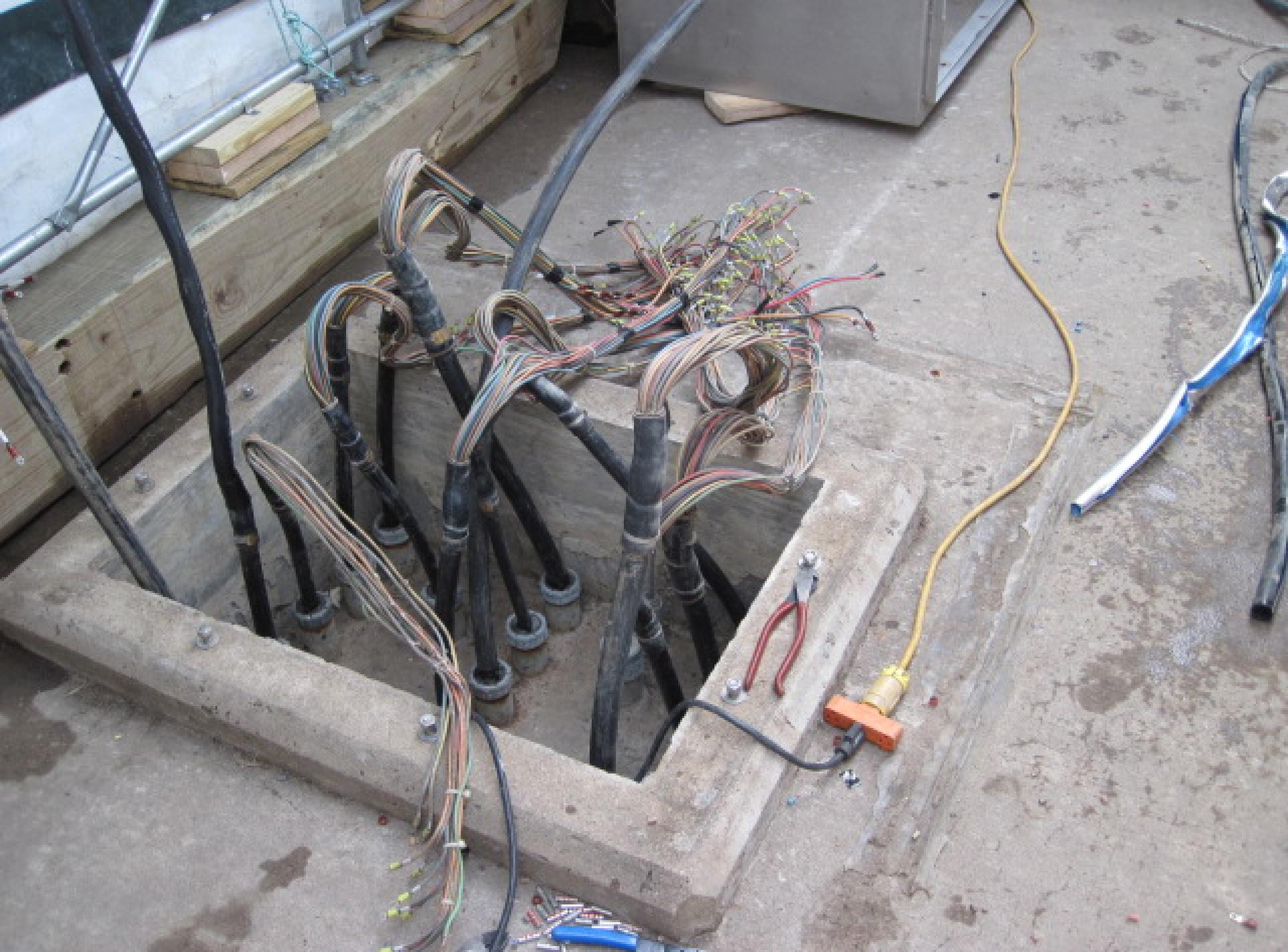


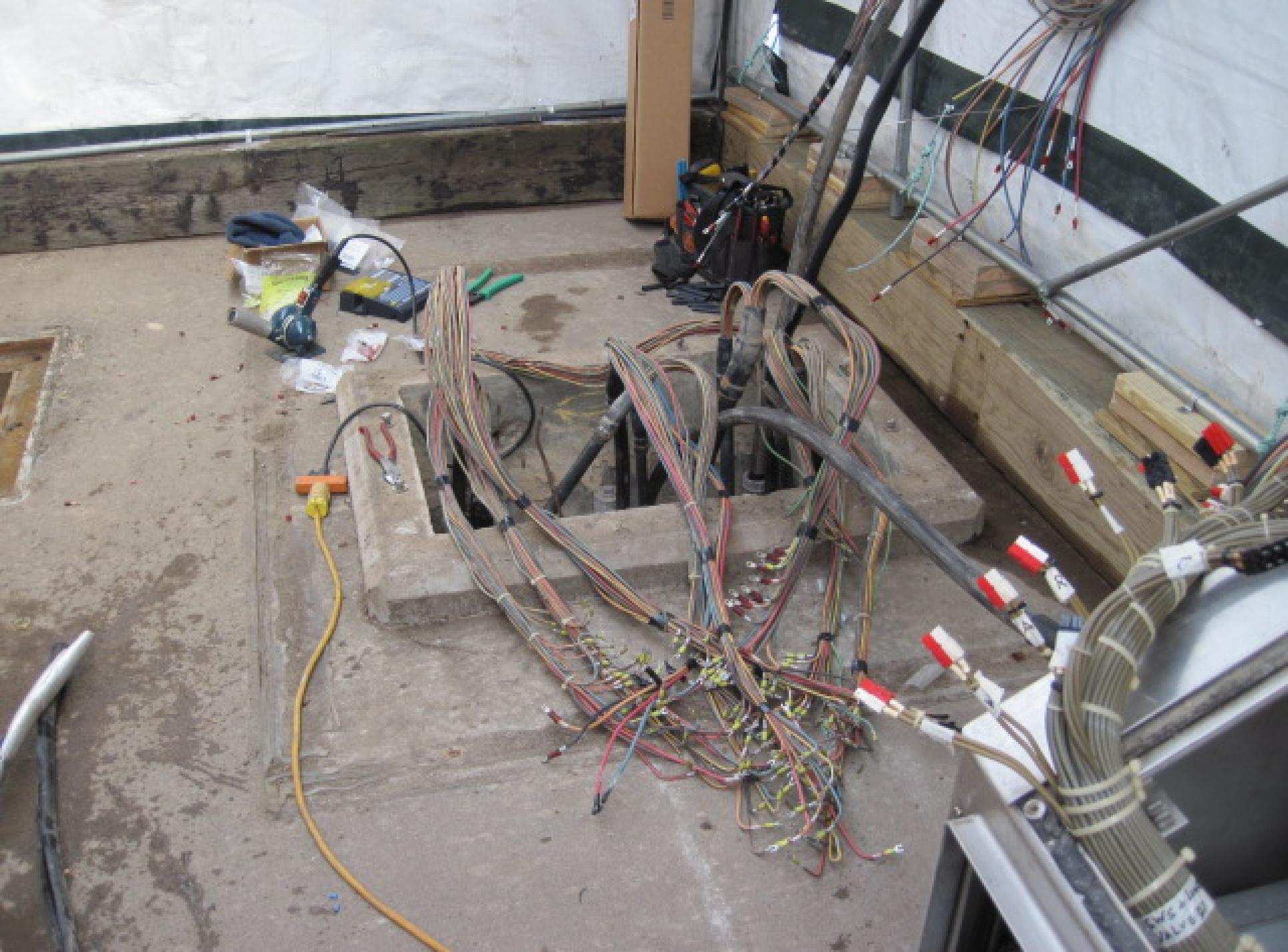
08-2

104

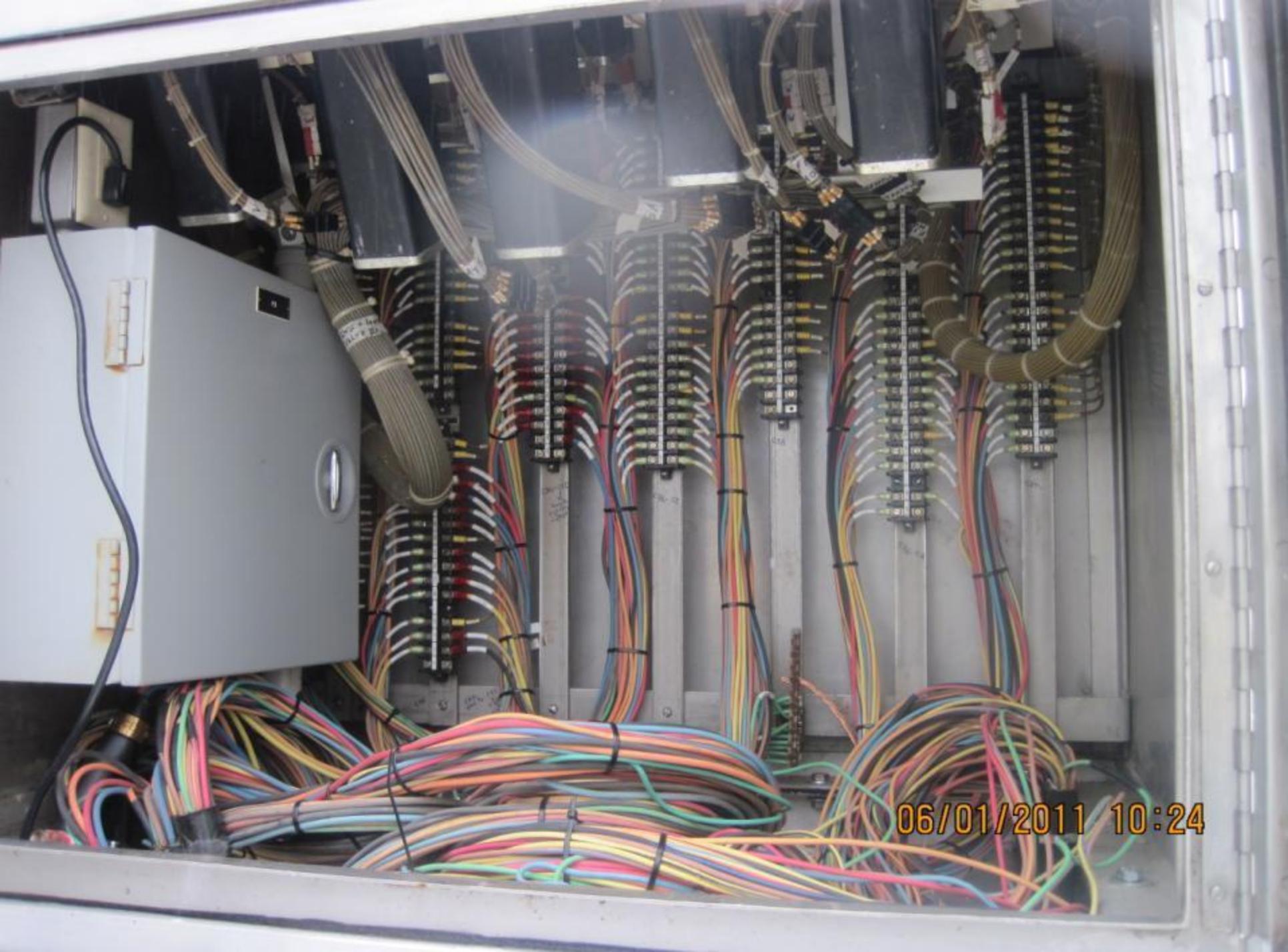
104

104

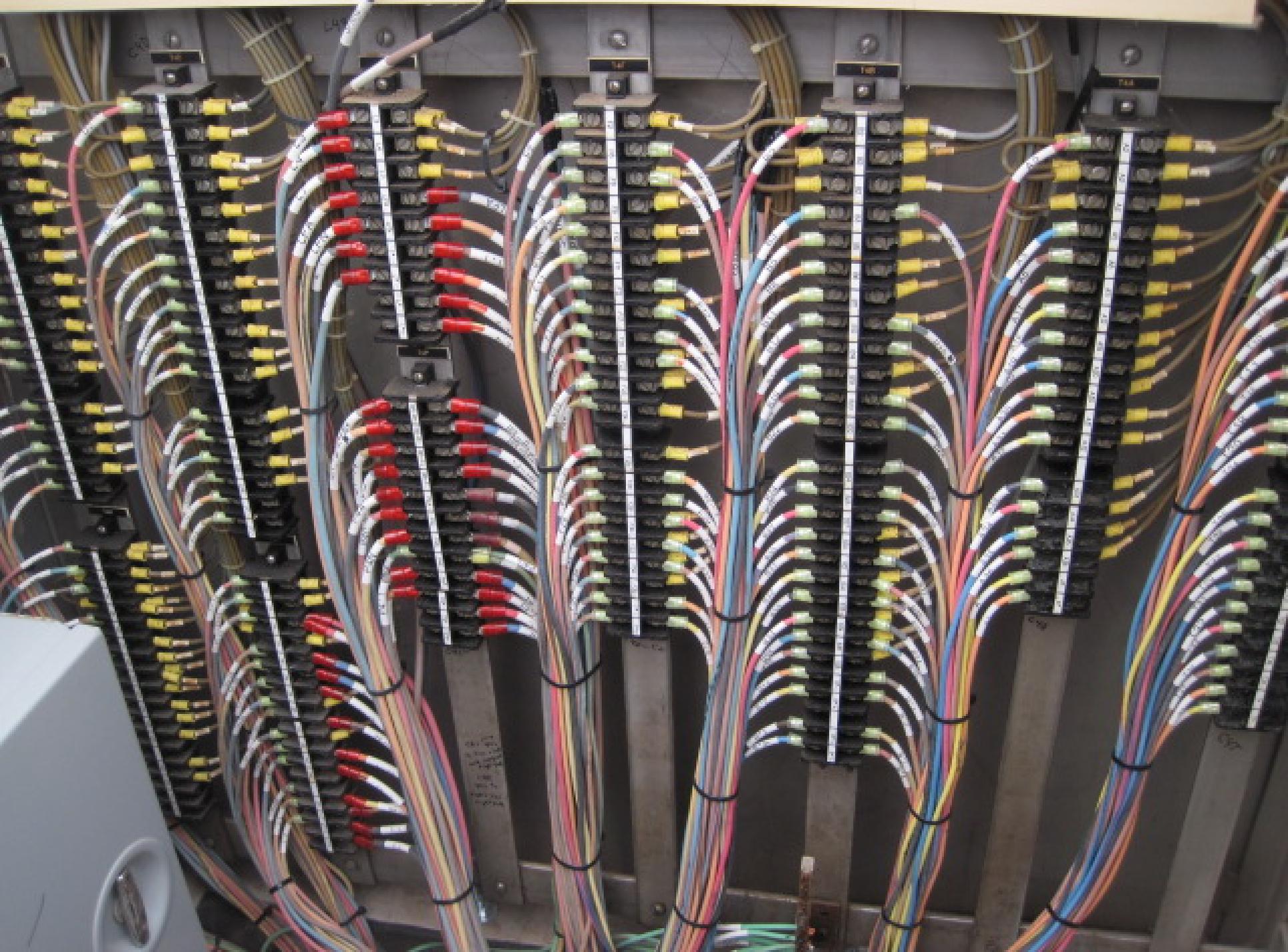


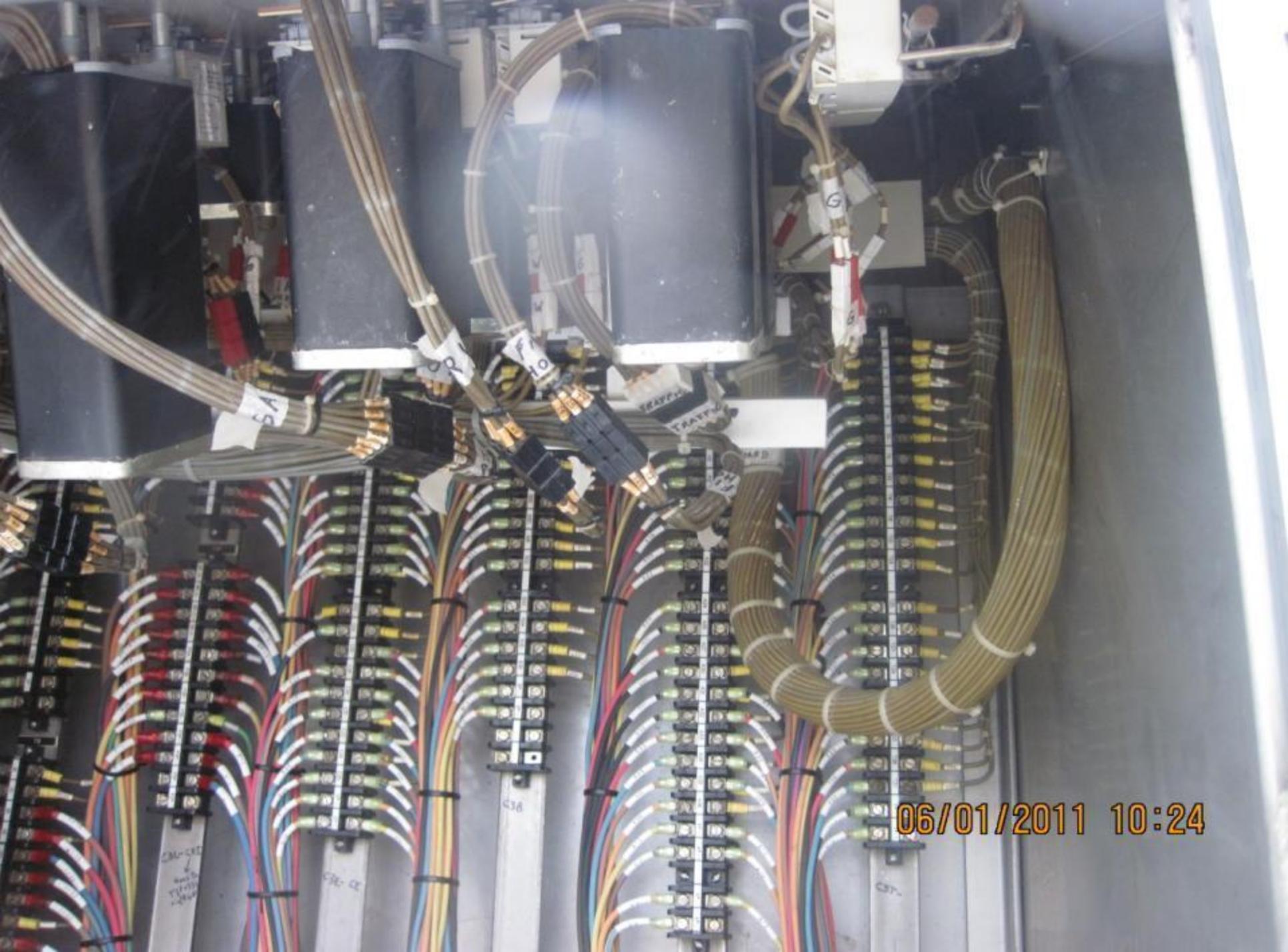






06/01/2011 10:24





06/01/2011 10:24



6051 T851
ASTM A209-07
K2M

6051 T851
ASTM A209-07
K2M

6051 T851
ASTM A209-07
K2M

6051 T851
ASTM A209-07
K2M 3.19" LOT 80115

06/01/2011 10:22



06/01/2011 10:11



06/01/2011 10:10