Ameren Services

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October 31, 2001

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Missouri Public
Service Commission

VIA FEDERAL EXPRESS

Mr. Dale Hardy Roberts
Secretary/Chief Regulatory Law Judge
Missouri Public Service Commission
200 Madison Street, Suite 100
Jefferson City, MO 65101

Ameren

Re: MPSC Case No. ES-2001-359

Dear Mr. Roberts:

Enclosed for filing on behalf of Union Electric Company, d/b/a AmerenUE, in the above matter, please find an original and eight (8) copies of its **Final Progress Report to the Public Service Commission of the State of Missouri.**

Kindly acknowledge receipt of this filing by stamping a copy of the enclosed letter and returning it to me in the enclosed self-addressed envelope.

Very truly yours,

James J. Cook
Managing Associate General Counsel

JJC/mlh
Enclosures

cc: Jim Ketter (MPSC)

Final Progress Report to the Public Service Commission of the State of Missouri
AmerenUE
Case No. ES-2001-359
Venice Plant Turbine #1 Fire
Venice, Illinois
August 10, 2000

This report details specific progress made by Ameren/UE, Venice Plant in response to the Missouri Public Service Commission Staff recommendations outlined in the incident report of April 25, 2001. The following recommendations have been implemented as noted below.

Report to Staff the completion of:

d. D.C. system upgrades for backup and reliability including addition of battery chargers and rerouting of cables.

Power Source

There are three battery banks supplying 125Vdc power to the plant.

- Battery Banks "B" and "C" are equipped with ABSOLYTE 11P 60 cell, rated at 1000 Amp Hours.
- Battery Bank "D" is equipped with ABSOLYTE 11P 60 cell, rated at 210 Amp Hours.

Note: The battery banks are charged by three solid state battery chargers protected with circuit breakers.

Emergency 125Vdc Power from Motor-Generator Set #2

Motor-Generator Set #2, located on north end of the 115 Grade Switchboard Room, is tied to the "A" Switchboard and is protected by a 200 amp circuit breaker. There are also fused tie switches allowing transfer of power to any distribution board.

Power Distrubution

Distribution of 125Vdc power is conducted through three fused switchboards.

- The "A" Board, located on the north end of the 115 Grade Switchboard Room is equipped with 30 fuse protected switches that are rated for protection of the associated feeder circuits.
- The "F" Board, located on the south end of the 115 Grade Switchboard Room is equipped with 40 fuse protected switches that are rated for protection of the associated feeder circuits.

- The 125Vdc Distribution Cabinet 1 is equipped with a 16 fuse protected switches.
- The 125Vdc Distribution Cabinet 2 is equipped with a 30 fuse protected switches.

UPS Systems "A" and "B"

UPS Systems "A" and "B" provide 240/120Vac power from the batteries. Both the "A" and "B" 125Vdc input power circuits are protected by a circuit breaker and the 240/120 output circuits are fuse protected.

Cable Rerouting

The issue of rerouting cables potentially exposed to failure due to fire or some other catastrophic event was addressed by fuse protecting all of the affected circuits. Grounding of the entire dc control system is now virtually impossible with the new fused circuit arrangements. The actual physical relocation of these circuits would not have been an economical of effective choice for protection. Logistically, rerouting would have been difficult if not impossible to achieve.

Pictures of the fused circuits are provided as an attachment to this report.

Appropriate drawings are also attached for you review. There are some drawing revisions in progress however, the revisions do not materially affect the overall circuit protection schemes.

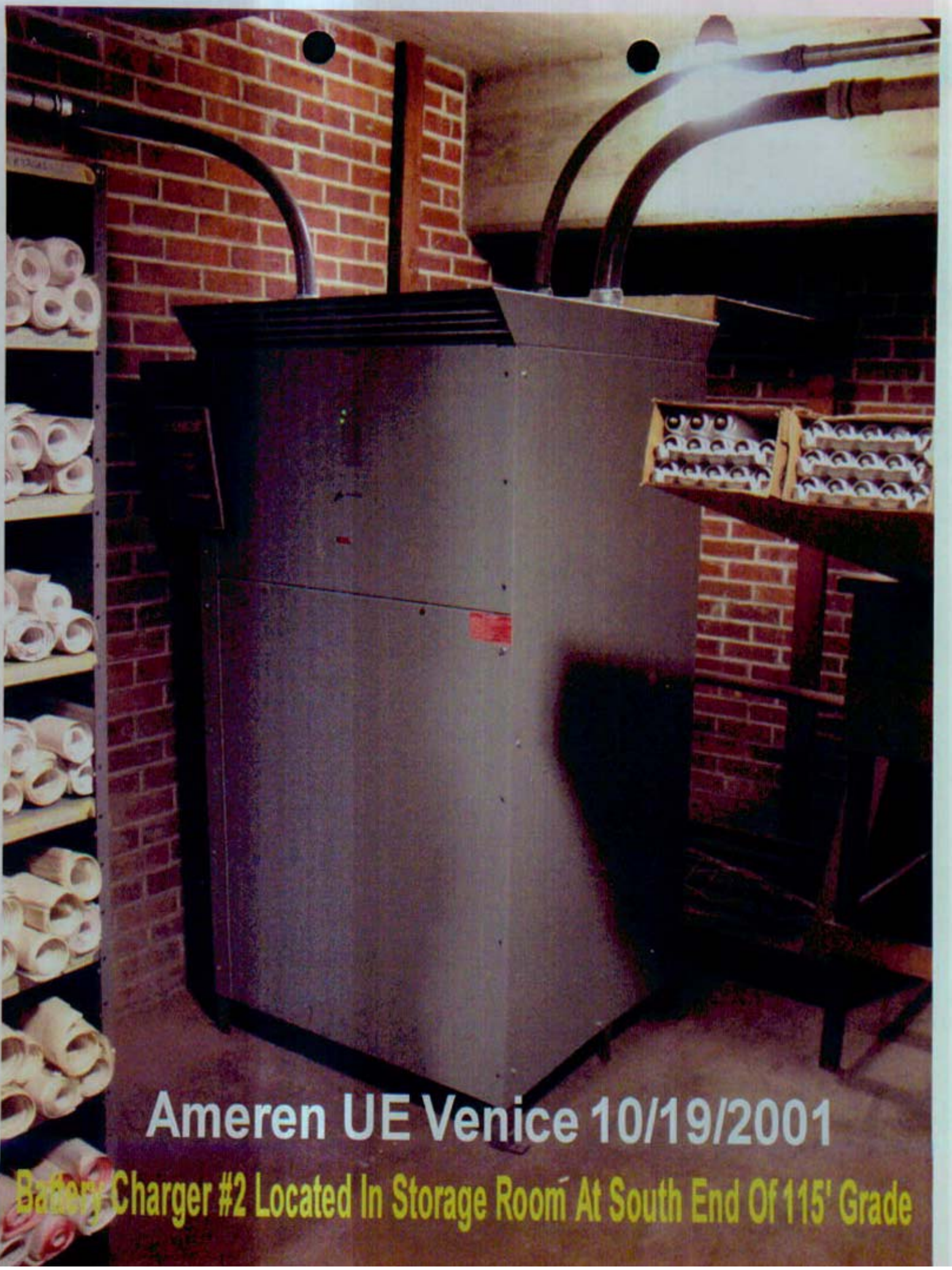
This is the final report submission to the MPSC Staff regarding **Case No. ES-2001-359, Venice Plant Turbine #1 Fire** as filed on April 25 2001. All of the Staff recommendations have been implemented as describe in this and subsequent reports since the filing.

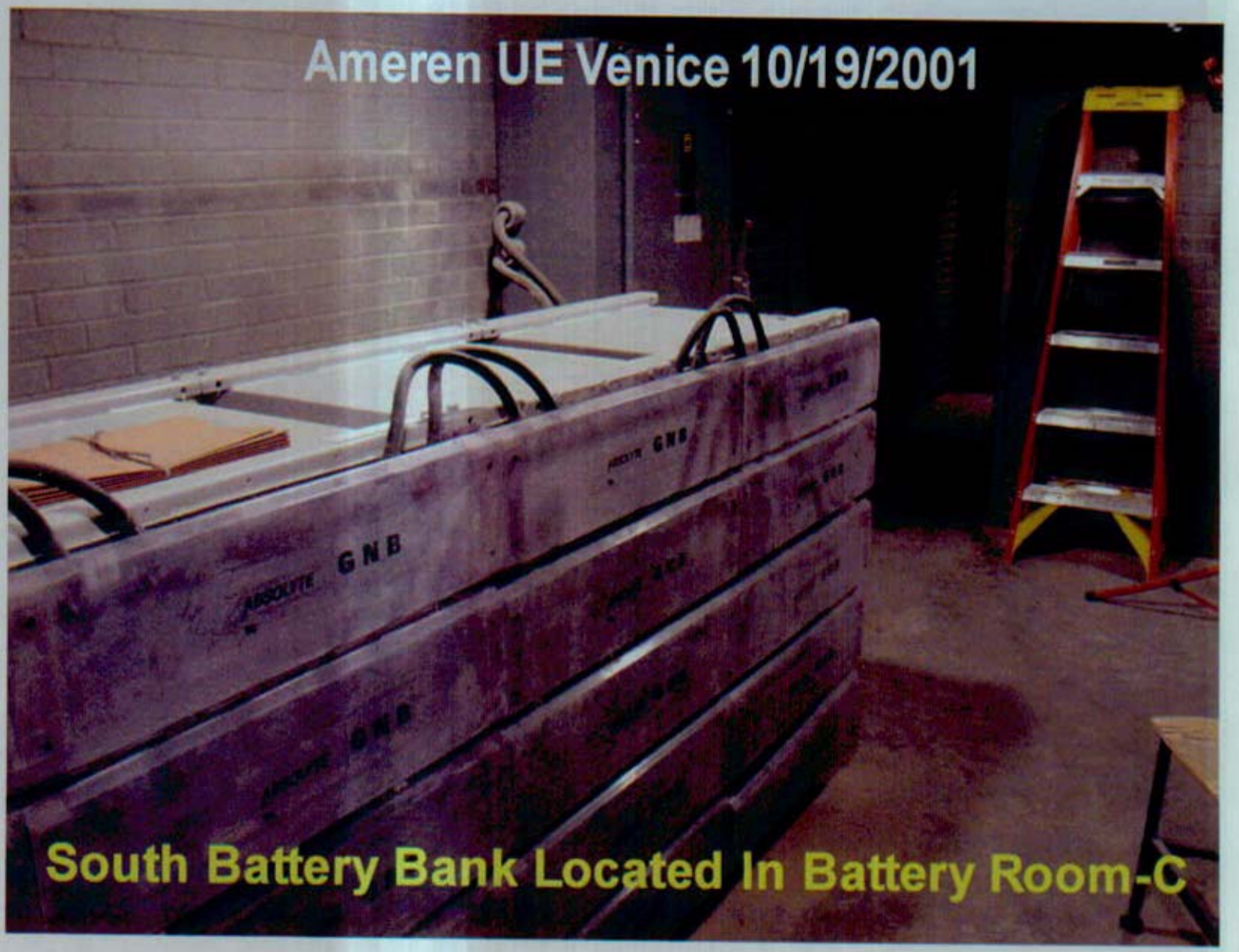
Submitted by:

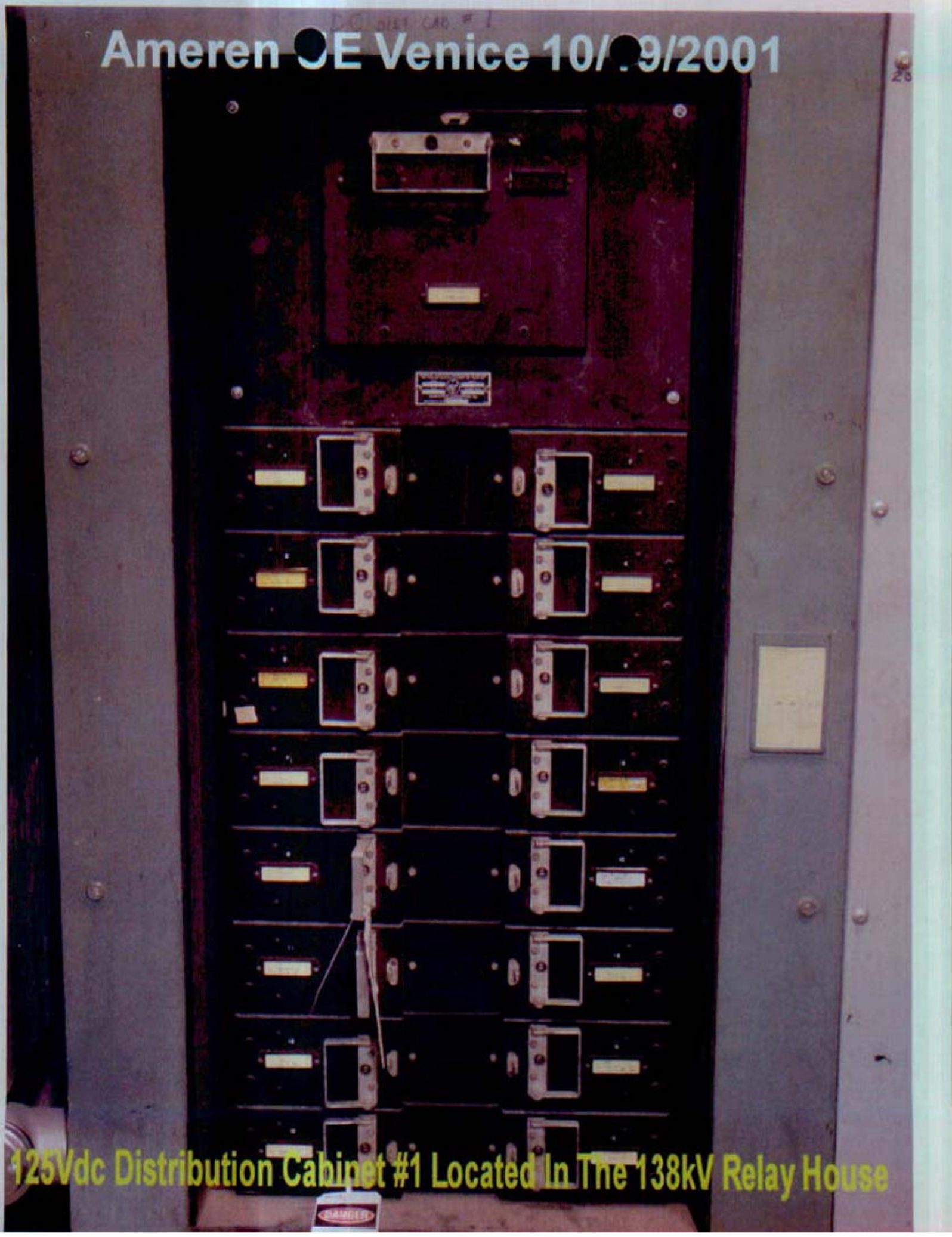
John W. Scott
Plant Manager
Venice Plant

Cc J.J. Cook (w/o attachment)

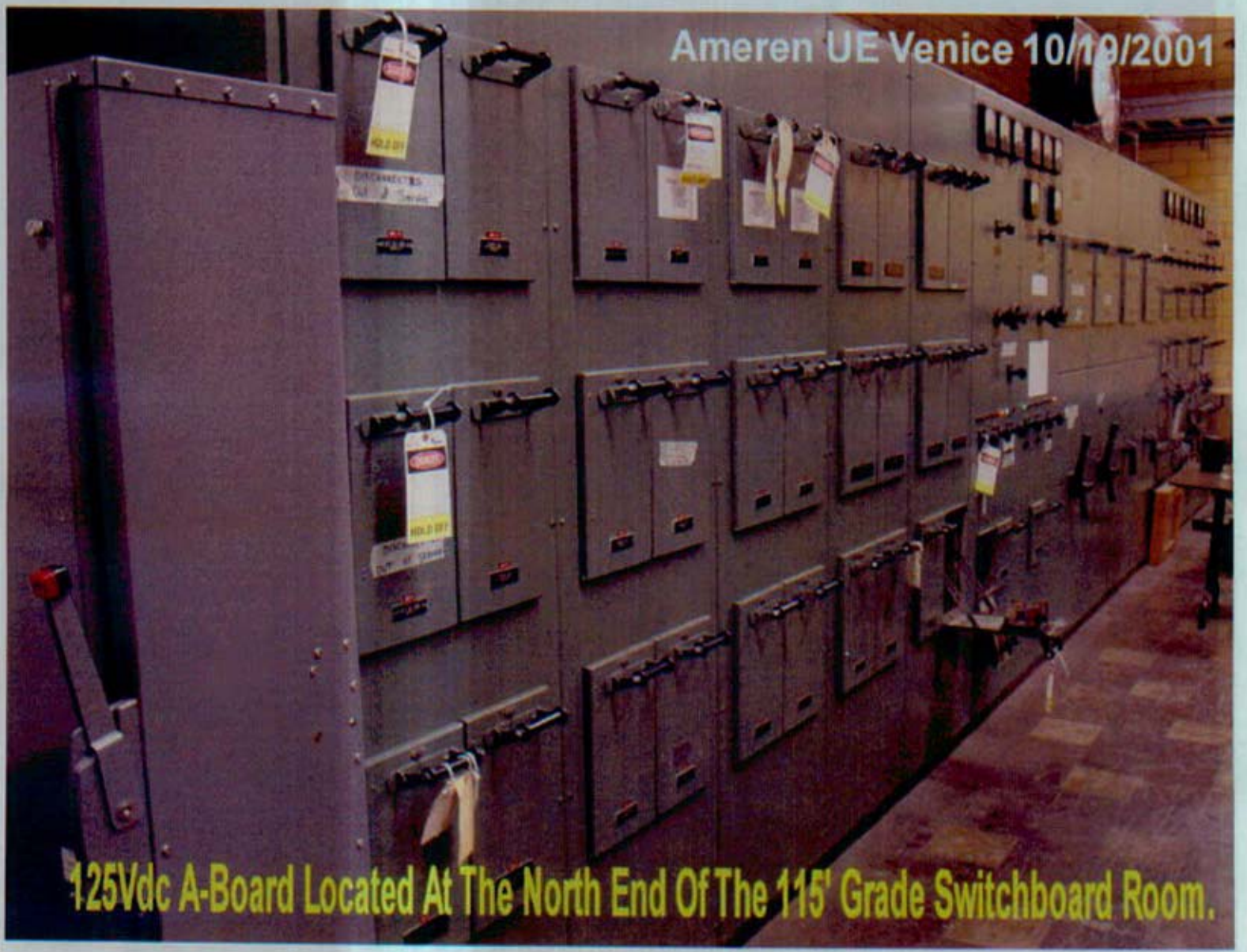

Ameren ●E Venice 10/●9/2001
Battery Charger #3 Located In The 138kV Relay House


Ameren UE Venice 10/19/2001
Battery Charger #2 Located In Storage Room At South End Of 115' Grade


Ameren UE Venice 10/19/2001
ABSOLUTE GNB
South Battery Bank Located In Battery Room-C

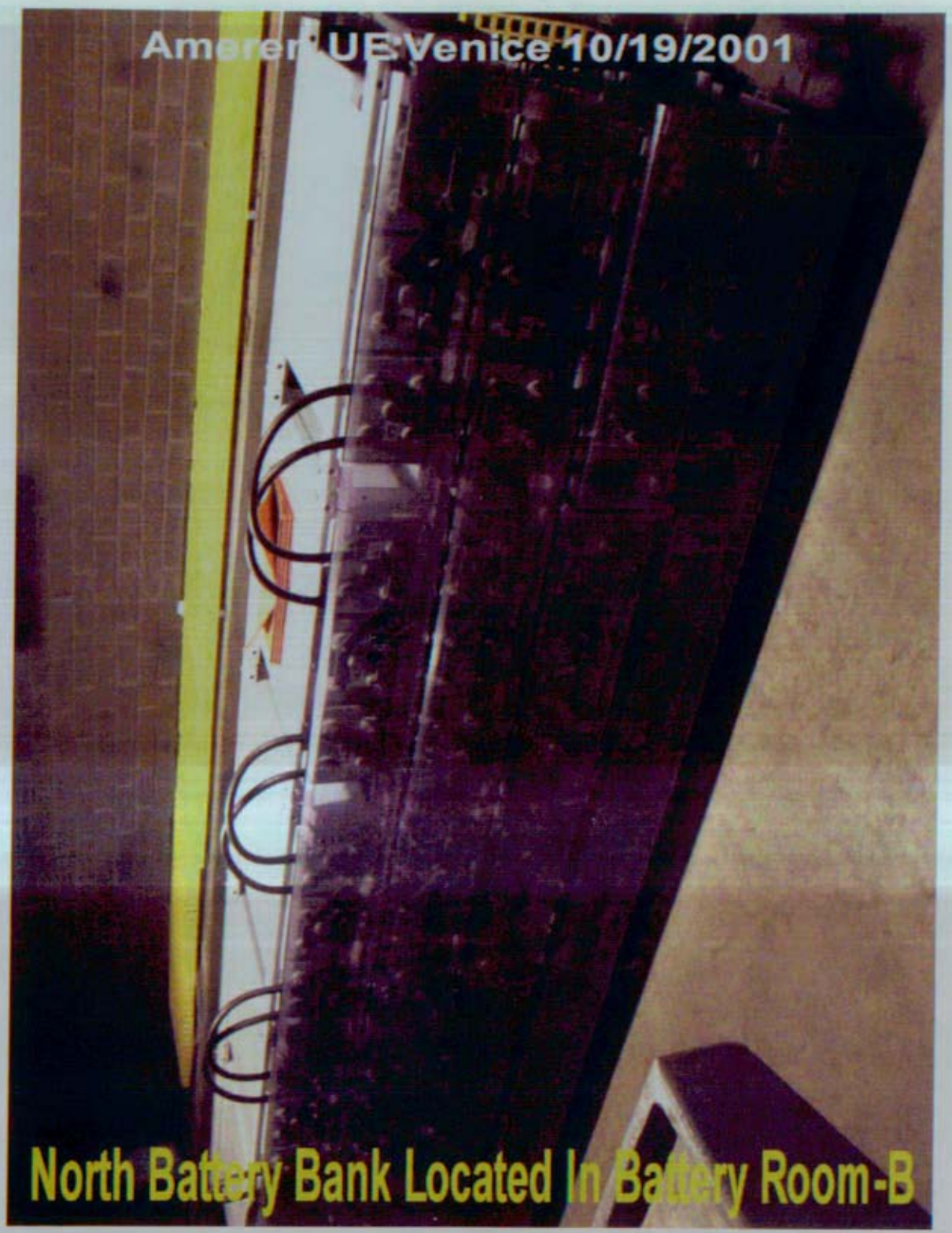

Ameren [redacted]E Venice 10/[redacted]9/2001
125Vdc Distribution Cabinet #1 Located In The 138kV Relay House


Ameren UE Venice 10/19/2001
SW-#3
SW-#4
SW-#5
SW#6
SW#7
SW#8
SW#9
SW#10
HOLD OFF
OFF
ON
125Vdc Distribution Cabinet #2 Located In The 138kV Relay House


Ameren UE Venice 10/19/2001
125Vdc A-Board Located At The North End Of The 115' Grade Switchboard Room.

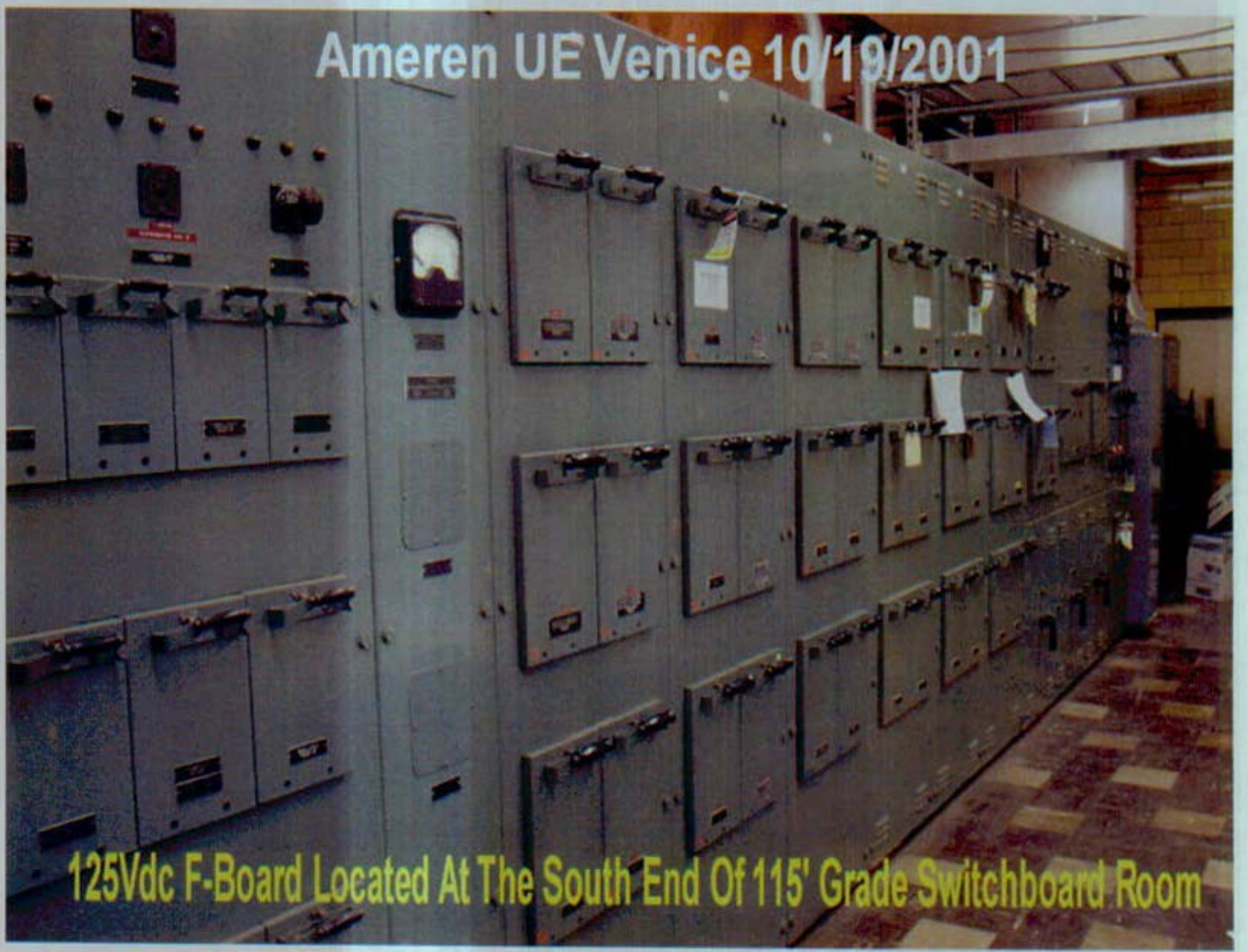

Amere U E Venice 10/19/2 1
New Fuses For The 125Vdc A-Board

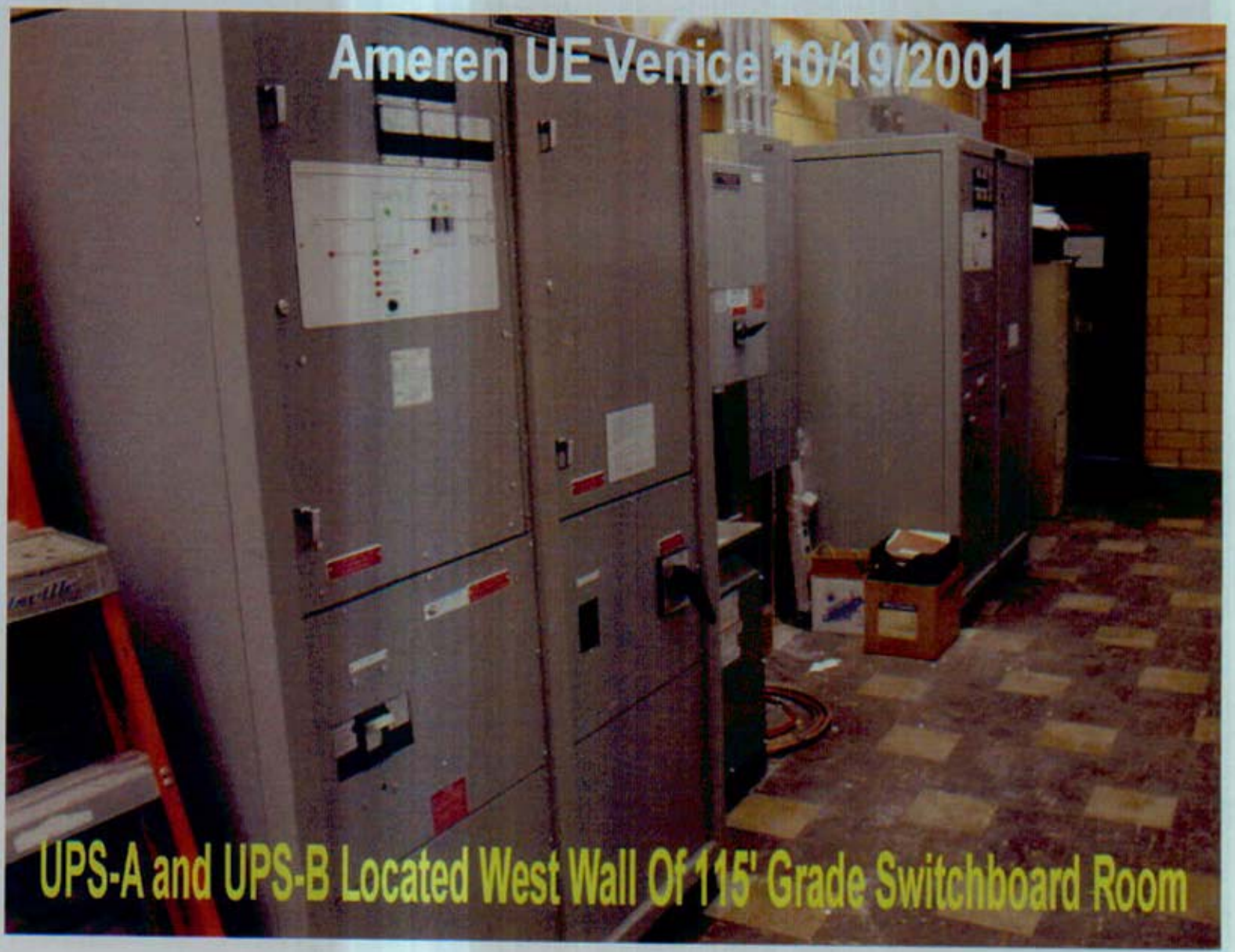
Closer View Of A-Board Fuse Installation


Amerer UE Venice 10/19/2001
North Battery Bank Located In Battery Room-B


AmerenUE Venice 10/10/2001
North Battery Fused Disconnect

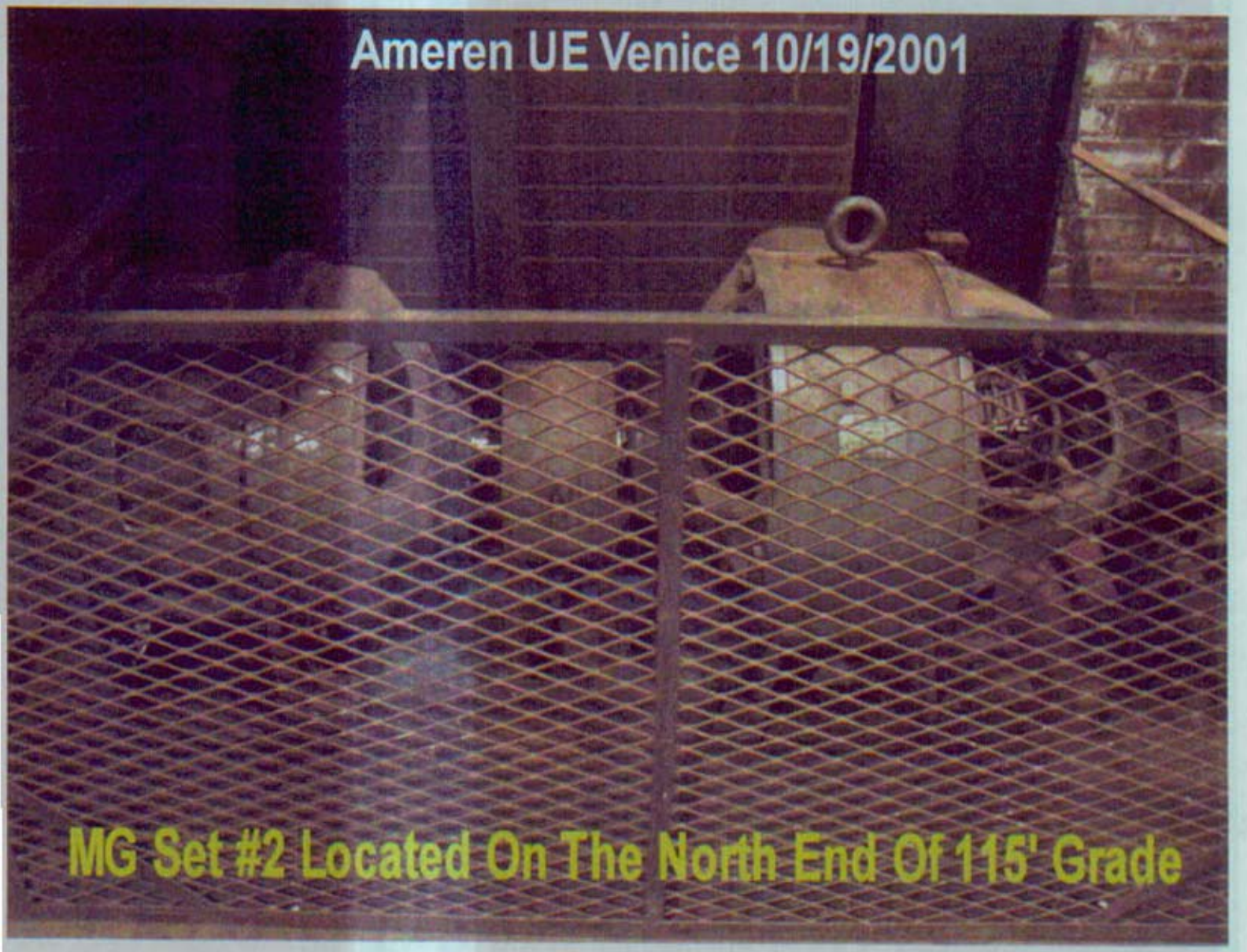

Ameren UE Venice 10/19/2001
MARCHE
Charger #1 Located In Battery Room-A


Ameren UE Venice 10/19/2001
125Vdc F-Board Located At The South End Of 115' Grade Switchboard Room


Ameren UE Venice 10/19/2001
UPS-A and UPS-B Located West Wall Of 115' Grade Switchboard Room

Ameren UE Venice 10/19/2001

Battery Bank Located In The 138kV Relay House


Ameren UE Venice 10/19/2001
MG Set #2 Located On The North End Of 115' Grade