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February 29, 1980

Mr. Thomas A. Ippolito, Chief
Operating Reactors - Branch 3
Division of Operating Reactors
U.S. Nuclear Regulatory Commission
Washington, DC 20555

Subject: Dresden Station Units 2 and 3
Quad Cities Station Units 1 and 2
Response to Request for Information
concerning Fire Protection Safe
Shutdown Analysis
NRC Docket Nos. 50-237/249/254/265

References (a): T. A. Ippolito letter to D. L. Peoples
dated October 22, 1979

(b): R. F. Janecek letter to T. A. Ippolito
dated January 23, 1980

Dear Mr. Ippolito:

Reference (b) provided a partial response to a request for information in Reference (a) concerning our Fire Protection Safe Shutdown analysis at Dresden 2/3 and Quad Cities.

Enclosure 1 to this letter contains our response to Item 8(l) of Reference (a) for Quad Cities. The control circuit design required to respond to Items 8(c) and 8(e) are not complete at this time. Our response to these items will be provided by June 1, 1980.

Enclosure 2 contains our response to Items 8(e) and 8(l) of Reference (a) for Dresden 2/3. Three copies of the indicated drawings are provided for your use.

Please address any additional questions you may have concerning this matter to this office.

One (1) signed original and fifty-nine (59) copies of this transmittal are provided for your use.

Very truly yours,

Robert F Janecek

Robert F. Janecek
Nuclear Licensing Administrator
Boiling Water Reactors

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Attachment

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Enclosure 1

Quad Cities 1/2

Question 8(1)

Demonstrate that repair procedures for cold shutdown systems are developed and material for repairs is maintained on site.

Response

The Quad Cities Safe Shutdown Analysis for fire describes the means for taking the plant from hot shutdown to cold shutdown. The analysis does not rely on repairs or addition of materials; therefore, repair procedures are not necessary.

Enclosure 2

Dresden 2/3

Question 8(e)

Demonstrate that alternate shutdown power sources, including all breakers, have isolation devices on control circuits that are routed through the area to be avoided, even if the breaker is to be operated manually.

Response

The equipment that would be needed to provide for a safe shutdown for fire is identified in the Dresden 2/3 Safe Shutdown Analysis and its supplements. This equipment is:

1. Control Rod Drive Pumps
2. Condensate Transfer Pumps

The power supplies necessary to provide power to these pumps are:

1. 4KV bus supply from Diesel Generators.
2. 4KV bus supply from opposite unit.
3. 4KV bus supply to Control Rod Drive Pumps.
4. 4KV bus supply to the 480 Volt bus supply to the MCC feeding the Condensate Transfer Pumps.
5. 480 Volt supply to the Condensate Transfer Pumps.

Copies of the following drawings provide the details of the isolation devices of control circuits for the power sources identified above.

Unit 2

Service	Bus	Circuit Breaker	Drawing
Bus 23-1 Feed - DG 2/3	23-1	2333	12E2345 Rev. Q
Bus 24-1 Feed - DG 2	24-1	2422	12E2346 Rev. N
Bus 23-1 BT to Bus 23	23-1	2329	12E2344 Rev. H
Bus 24-1 BT to Bus 24	24-1	2430	12E2344 Rev. H
Bus 23 BT to Bus 23-1	23	2302	12E2344 Rev. H
Bus 24 BT to Bus 24-1	24	2411	12E2344 Rev. H
Bus 24-1 BT to Bus 34-1	24-1	2432	12E2346 Rev. N
Bus 23 Feed to CRD Pump 2A	23	2301	12E2416 Rev. K
Bus 24 Feed to CRD Pump 2B	24	2414	12E2416 Rev. K
Bus 23-1 Feed to Transformer 28	23-1	2327	12E2349 Rev. H
Bus 24-1 Feed to Transformer 29	24-1	2426	12E2349 Rev. H
Transformer 28 Feed to 480 Volt Bus 28	28	MF28	12E2349 Rev. H
Transformer 29 Feed to 480 Volt Bus 29	29	MF29	12E2349 Rev. H
Bus 28 Feed to Bus 28-2	28	-	12E2374 Rev. M
Bus 29 Feed to Bus 29-2	29	-	12E2374 Rev. M
Bus 28-2 Feed to Cond. Trans. Pump 2A	28-2	-	12E2370 Rev. J
Bus 29-2 Feed to Cond. Trans. Pump 2B	29-2	-	12E2370 Rev. J

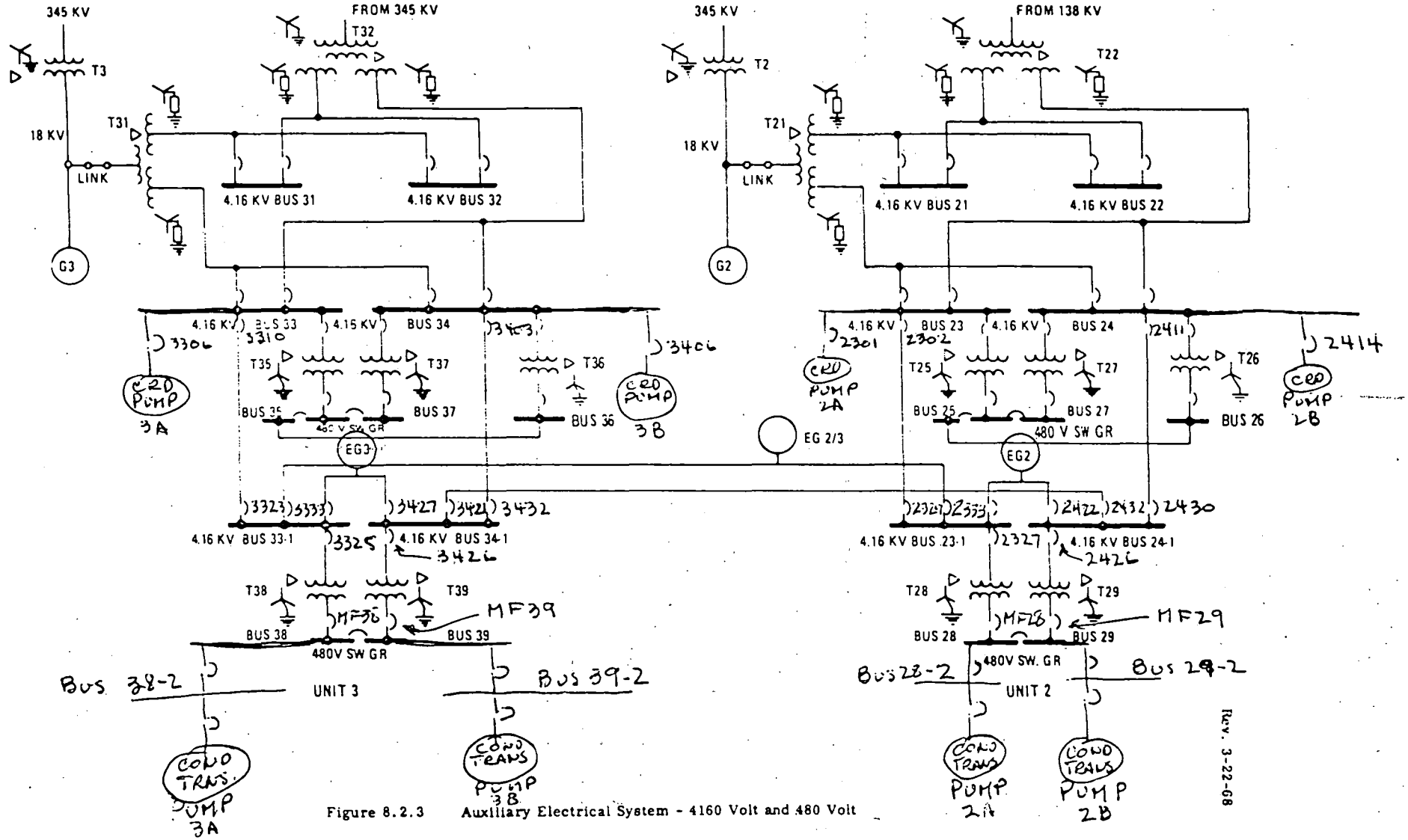

Figure 8.2.3 Auxiliary Electrical System - 4160 Volt and 480 Volt

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Enclosure 2

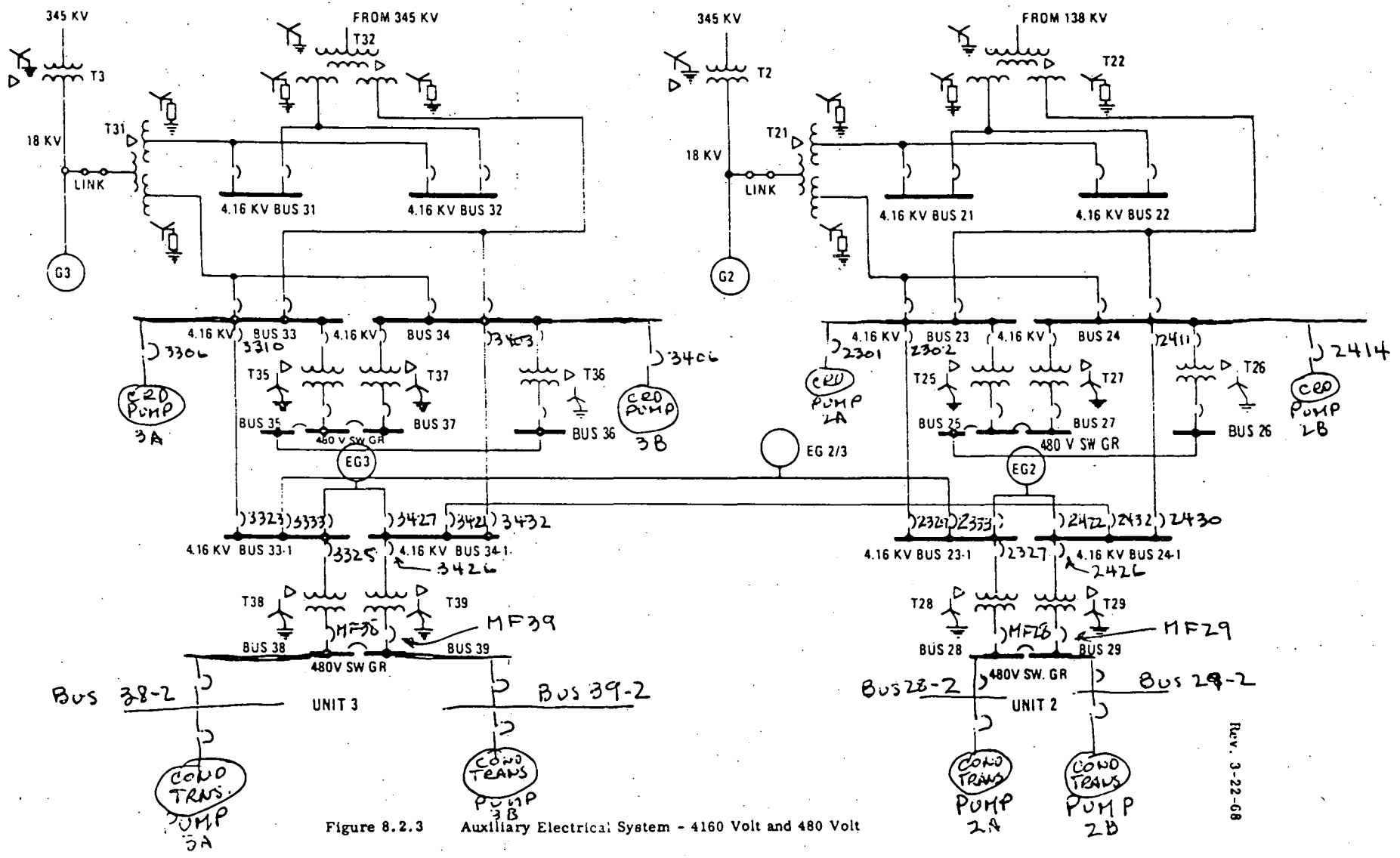
Dresden 2/3

Question 8(1)

Demonstrate that repair procedures for cold shutdown systems are developed and material for repairs is maintained on site.

Response

A review of the Dresden 2/3 Safe Shutdown Analysis and Supplement 1 to that analysis indicates that no credit is taken for system repairs to enable the plant to be taken to cold shutdown. Therefore, no repair procedures or materials for repair are necessary.



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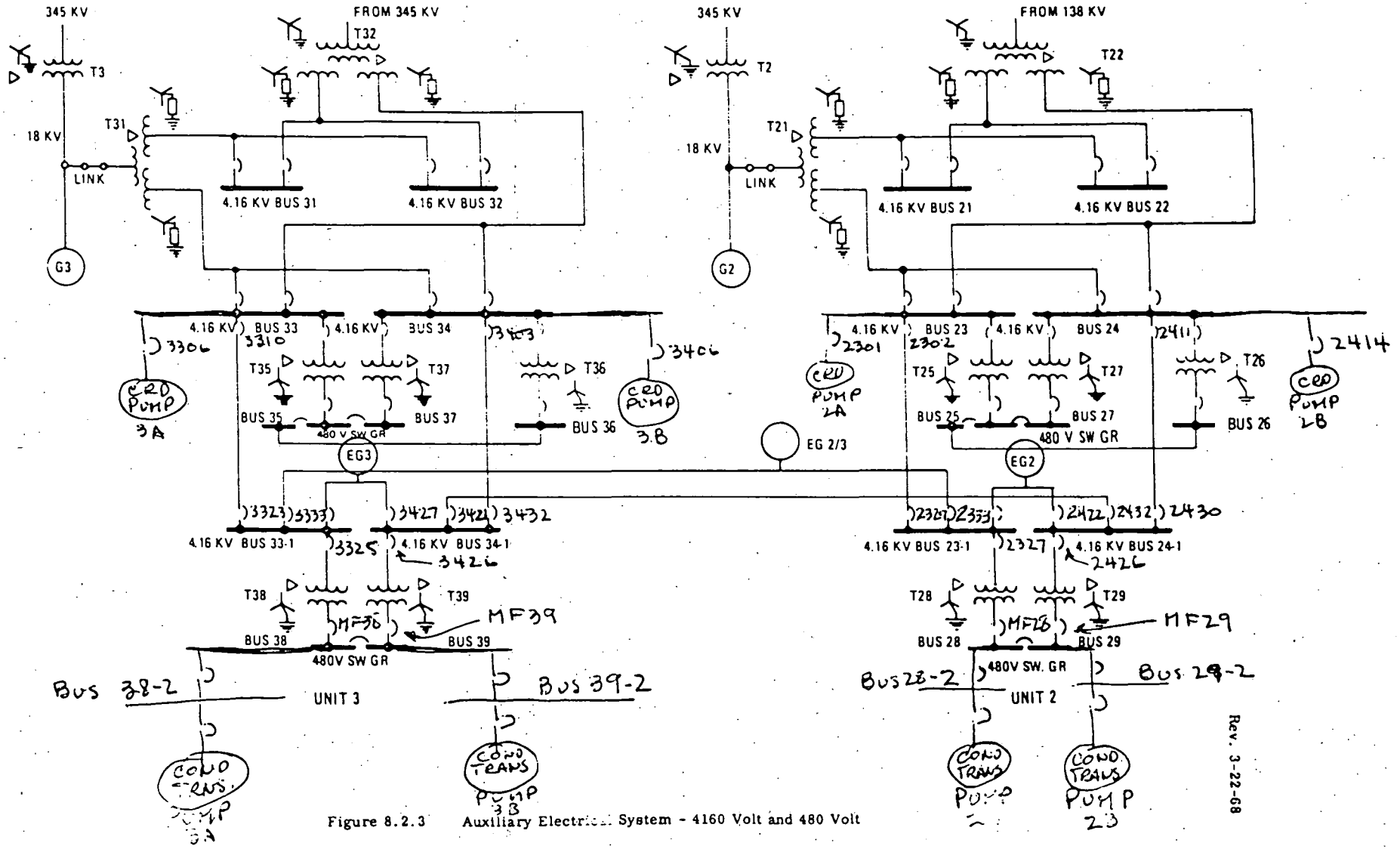

Figure 8.2.3 Auxiliary Electrical System - 4160 Volt and 480 Volt

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