

NOTES CONTINUED FROM
DRAWING M-2833

TEMPERATURE ELEMENT TABULATION

DRIVE MOTOR		
INSI NO	REFNS	DESCRIPTION
N362A	RTD/M1	WINDING TEMP - A PHASE
N363A	RTD/M2	" B
N364A	RTD/M3	" C
N365A	TE/P1	BEARING TEMP - OUTPUT SHAFT END
N366A	TE/P2	BEARING TEMP - EXCITER END

GENERATOR		
INSI NO	REFNS	DESCRIPTION
N370A	RTD/R1	WINDING TEMP - A PHASE
N371A	RTD/R2	" B
N372A	RTD/R3	" C
N373A	RTD/R4	" B
N374A	RTD/R5	" C
N375A	RTD/R6	WINDING TEMP - C PHASE
N376A	TE/S1	BEARING TEMP - INPUT SHAFT END
N377A	TE/S2	BEARING TEMP - COLLECTOR END

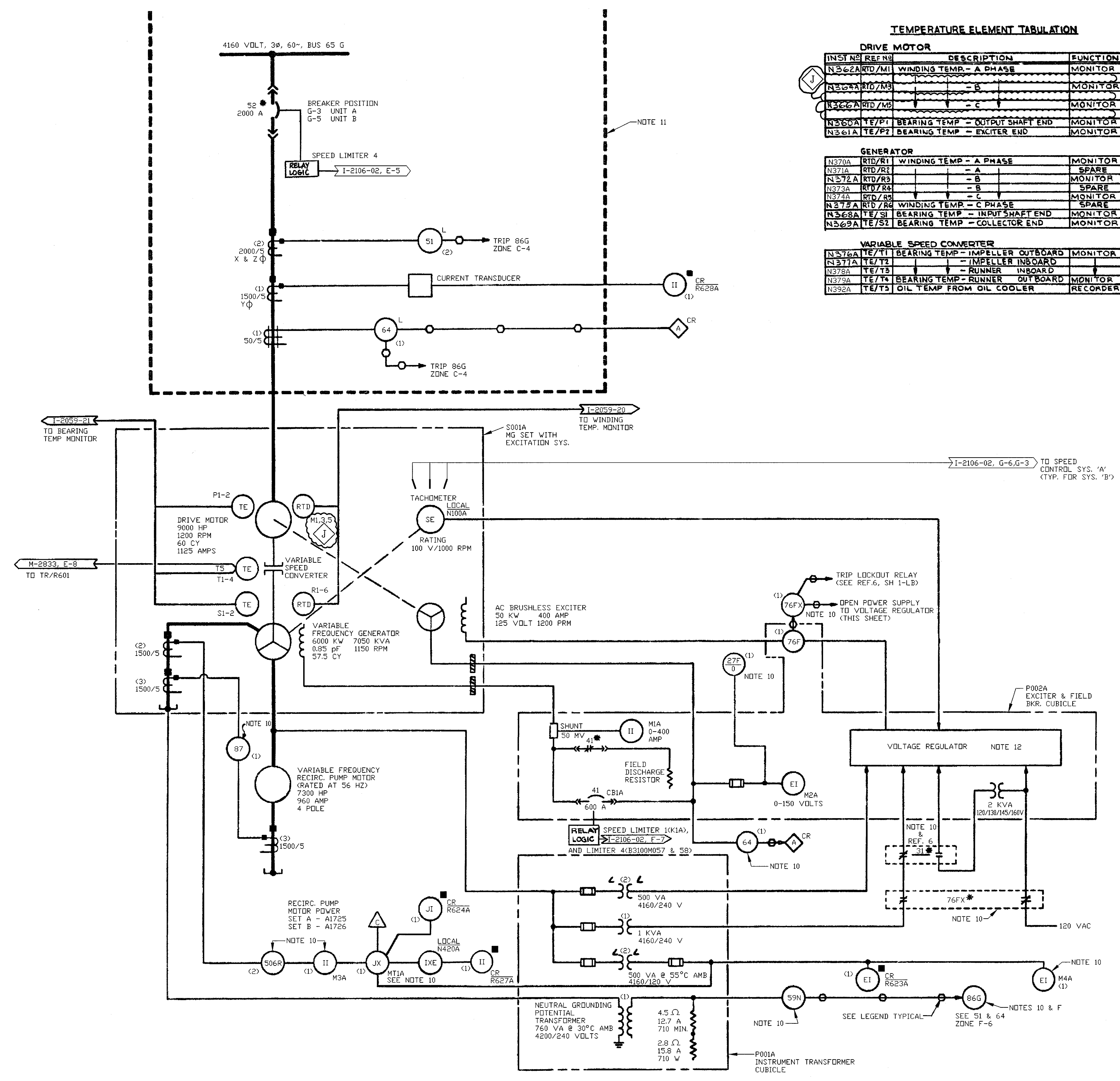
VARIABLE SPEED CONVERTER		
INSI NO	REFNS	DESCRIPTION
N378A	TE/T1	BEARING TEMP - IMPELLER OUTBOARD
N379A	TE/T2	BEARING TEMP - IMPELLER INBOARD
N380A	TE/T3	BEARING TEMP - RUNNER INBOARD
N381A	TE/T4	BEARING TEMP - RUNNER OUTBOARD
N382A	TE/T5	OIL TEMP FROM OIL COOLER

- UNLESS OTHERWISE SHOWN:
ALL INSTRUMENT PIS NUMBERS ARE PREFIXED B31
ALL VALVE & EQUIPMENT NUMBERS ARE PREFIXED B3100
- WHERE THERMOCOUPLES FOR PUMP & MOTOR ARE DESIGNATED A₁, A₂, ETC. A₂ IS A SPARE ELEMENT
- LIST OF PUMP & MOTOR AUXILIARY INSTRUMENTATION (FOR MG SET TE'S & RTD'S SEE TABULATION AT LEFT)
 - TE/A₁, A₂ THRUST BEARING, UPPER FACE
 - N380A THRUST BEARING, LOWER FACE
 - TE/B₁, B₂ UPPER GUIDE BEARING
 - TE/C₁, C₂ MOTOR WINDING "A"
 - N382A MOTOR WINDING "B"
 - RTD/D₁, D₂ MOTOR WINDING "C"
 - RTD/E₁, E₂ MOTOR WINDING "C"
 - N384A, N385A MOTOR WINDING "C"
 - RTD/F₁, F₂ MOTOR WINDING "C"
 - N386A, N387A LOWER GUIDE BEARING
 - TE/G₁, G₂ NO. 2 SEAL CAVITY
 - N388A NO. 1 SEAL CAVITY
 - TE/H MOTOR BEARING OIL COOLING WATER
 - N390A SEAL CAVITY COOLING WATER
 - TE/J PUMP SEAL LEAKAGE HIGH FLOW SWITCH
 - N391A PUMP SEAL LEAKAGE LOW FLOW SWITCH
 - TE/N001A MOTOR LOWER BEARING OIL HIGH LEVEL SWITCH
 - TE/N002A MOTOR LOWER BEARING OIL LOW LEVEL SWITCH
 - F5H/N003A MOTOR VIBRATION SWITCH
 - F5L/N004A MOTOR UPPER BEARING OIL LOW LEVEL SWITCH
 - L5H/M MOTOR UPPER BEARING OIL HIGH LEVEL SWITCH
 - N200A MOTOR LOWER BEARING OIL HIGH LEVEL SWITCH
 - L5L/S MOTOR LOWER BEARING OIL LOW LEVEL SWITCH
 - N202A SEAL STAGING LINE INNER SEAL LEAKAGE HIGH/LOW FLOW SWITCH
 - F5H/L N007A MOTOR VIBRATION TRANSDUCERS

- NOTES:
- DELETED
 - THIS DRAWING ALONG WITH I-2106-02 AND M-2833 FORMS THE SYSTEM PIPING AND INSTRUMENT DIAGRAM FOR THE REACTOR RECIRCULATION SYSTEM.
 - SEE DRAWING M-2833 FOR REFERENCES.
 - SEE DRAWING I-2102-01, 02, 03 FOR DETAILS OF MG SET CUBICLES.
 - DELETED
 - SEE DRAWINGS I-2101 SHEETS 01 THRU 04, AND 06 THRU 12 FOR REFERENCES.

(NOTES CONTINUED ON DRAWING I-2106-02)

- LEGEND:
- PB = PUSHBUTTON SWITCH
 - (X) DEVICE DOWNSTREAM OF ARROW IS ACTUATED BY DEVICE UPSTREAM OF ARROW
 - CR = CONTROL ROOM
 - L = LOCAL
 - (X) OR * = SWITCHGEAR DEVICE FUNCTION NUMBERS USAS SPEC. C37.2 NUMBER
 - (X) QUANTITY NUMBER
 - * = FURNISHED WITH ASSOCIATIVE EQUIP.
 - = INDICATES LOCATED IN C.O.P.



VARIABLE FREQUENCY MOTOR GENERATOR SET A
ONE LINE METER & RELAY DIAGRAM
(TYP. FOR MG SET 'B') (NOTE 16)

61721-2106-01
LATEST REVISION
J

NON-NUCLEAR SAFETY RELATED

THIS IS AN AUTOCAD PRODUCED DRAWING. CHANGES OR REVISIONS MUST BE BROUGHT TO THE ATTENTION OF THE PLANT ENGINEERING DESIGN GROUP TO ENSURE THAT CONFIGURATION CONTROL IS MAINTAINED.

THIS DRAWING WAS REFORMATTED BY AUTOCAD AT REVISION 'J'. ALL PREVIOUS APPROVAL SIGNATURES ARE ON FILE ON MICROFILM IN DOCUMENT CONTROL.

DCD'S INCORPORATED:	TSR-31563, REV. A	OTHER REVISIONS:	IN ZONE G-6, ZONE REFERENCE WAS CHANGED FROM E-6 TO E-5. THIS ADMINISTRATIVE CHANGE PER PEP-0019 FALLS WITHIN THE SCOPE OF MES09, STEP 3.1.6 (V/NOTE)
PREPARED BY:	DATE:	CHECKED BY:	DATE:
APPROVED BY:	DATE:	DATE:	DATE:

APPROVED BY: K. B. W. - has been Paul In... 5/20/03

INC CODE	Detroit Edison	Fermi 2
TITLE	INSTRUMENT DIAGRAM REACTOR RECIRCULATION ONE LINE METER & RELAY DIAGRAM	
APERTURE CARD TITLE	INST DIAG RRS ONE LINE & RLY	
PLANT IDENTIFICATION SYSTEM NUMBER	B3100	ARMS RECIPIENT #
DOCUMENT TYPE CODE	DDINC	DATE ISSUED TO IS
DRAWING NUMBER	61721-2106-01	REV J