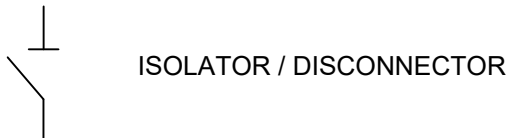


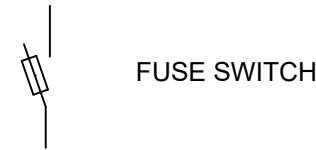
MOULDED CASE / MINIATURE
CIRCUIT BREAKER



ISOLATOR / DISCONNECTOR



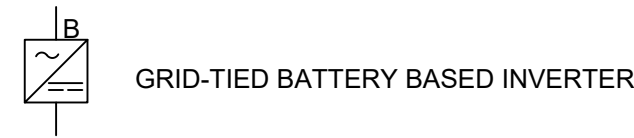
CONTACTOR



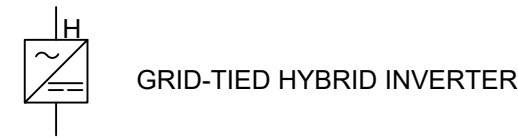
FUSE SWITCH



GRID-TIED INVERTER



GRID-TIED BATTERY BASED INVERTER



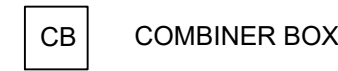
GRID-TIED HYBRID INVERTER



SOLAR PV ARRAY



WIND GENERATOR



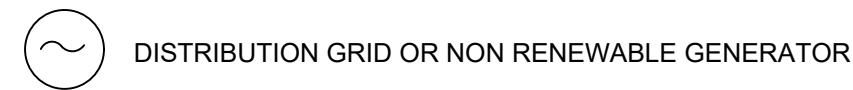
COMBINER BOX



CHARGE CONTROLLER



MAXIMUM POWER POINT TRACKER



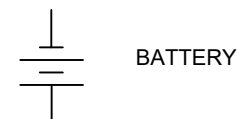
DISTRIBUTION GRID OR NON RENEWABLE GENERATOR



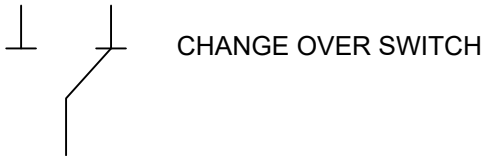
STANDBY GENERATOR



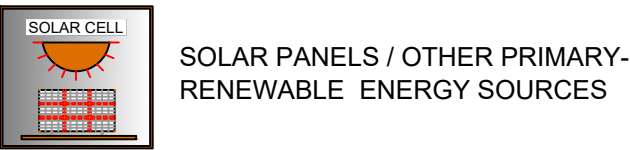
METER



BATTERY



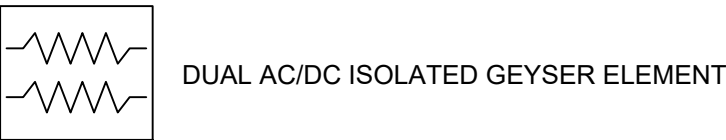
CHANGE OVER SWITCH



SOLAR PANELS / OTHER PRIMARY-
RENEWABLE ENERGY SOURCES



SINGLE GEYSER ELEMENT



DUAL AC/DC ISOLATED GEYSER ELEMENT

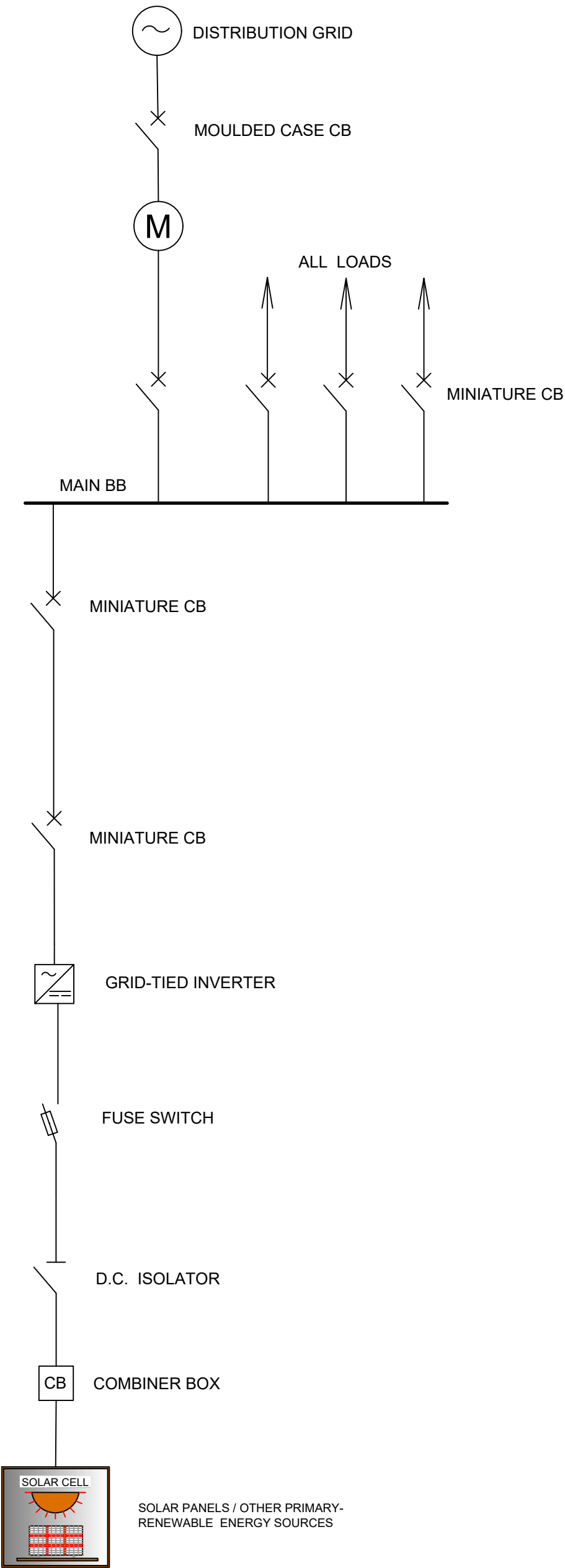
No.	AMENDMENTS		DATE
1	DRAWING NUMBER CHANGED	PT.M	10/11/2019
2	DRAWING REVIEWED	PT.M	05/05/2021
3	DRAWING REVIEWED	PT.M	31/01/2022
4	DRAWING REVIEWED	PT.M	14/06/2023
5	DRAWING REVIEWED	PT.M	27/09/2023
6	XXXXXXXXXX	X.XX	00/00/00



ENERGY GRID DIAGRAMS

COMPILED:	PT MOTEBU
CHECKED:	R. DE KOCK
APPROVED:	A VAN ZYL

EMBEDDED GENERATION Schematic Drawing : Legend		
SHEET SIZE	DRAWING No. SK5276	SHEET 1



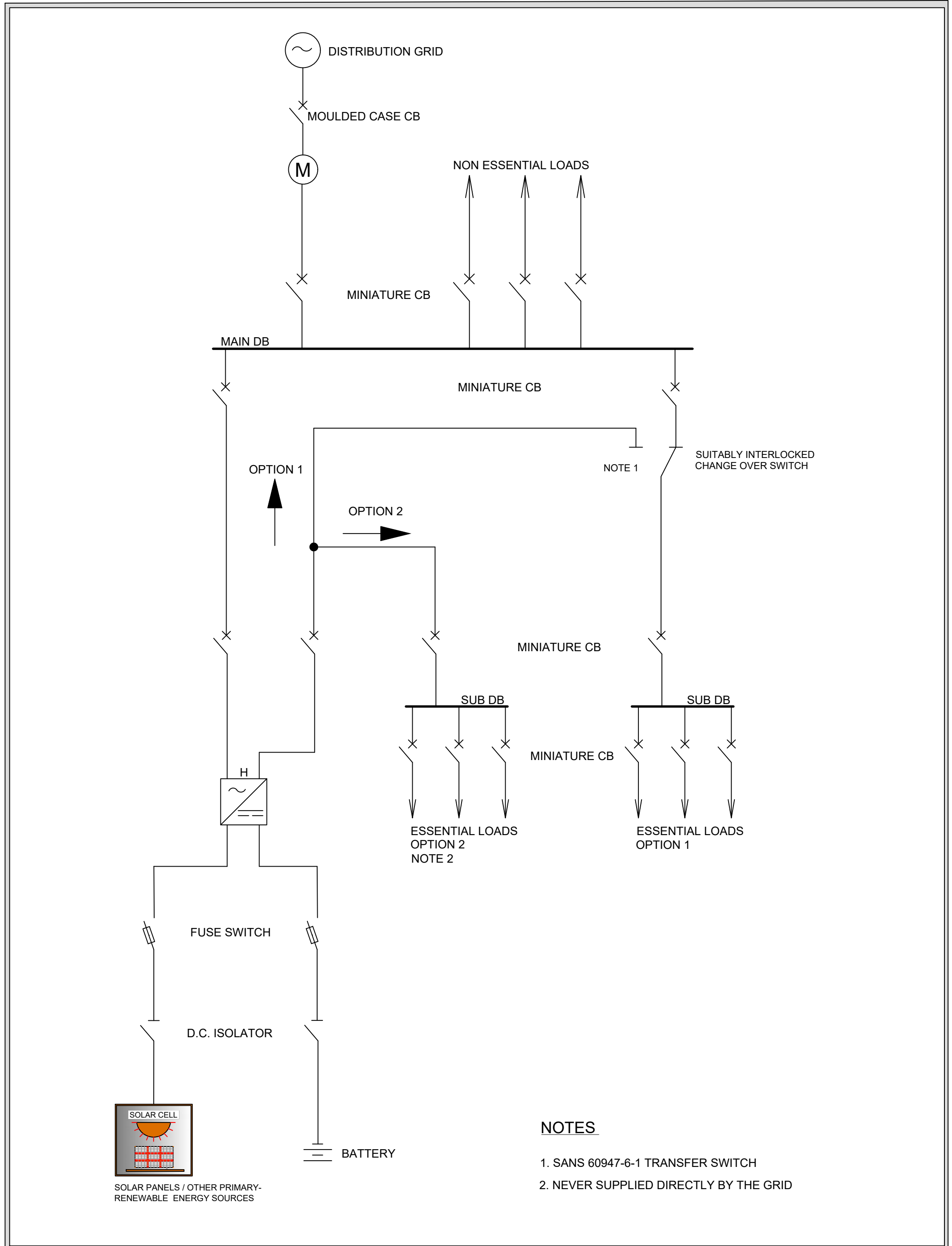
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2	DRAWING REVIEWED	PT.M 05/05/2021
3	DRAWING REVIEWED	PT.M 31/01/2022
4	DRAWING REVIEWED	PT.M 14/06/2023
5	XXXXXXXXXX	X.XX 00/00/00
6	XXXXXXXXXX	X.XX 00/00/00



ENERGY GRID DIAGRAMS

COMPILED:	PT MOTEBU
CHECKED:	R. DE KOCK
APPROVED:	A VAN ZYL

GRID-TIED SSEG		
SHEET SIZE	DRAWING No. SK5276	SHEET 2



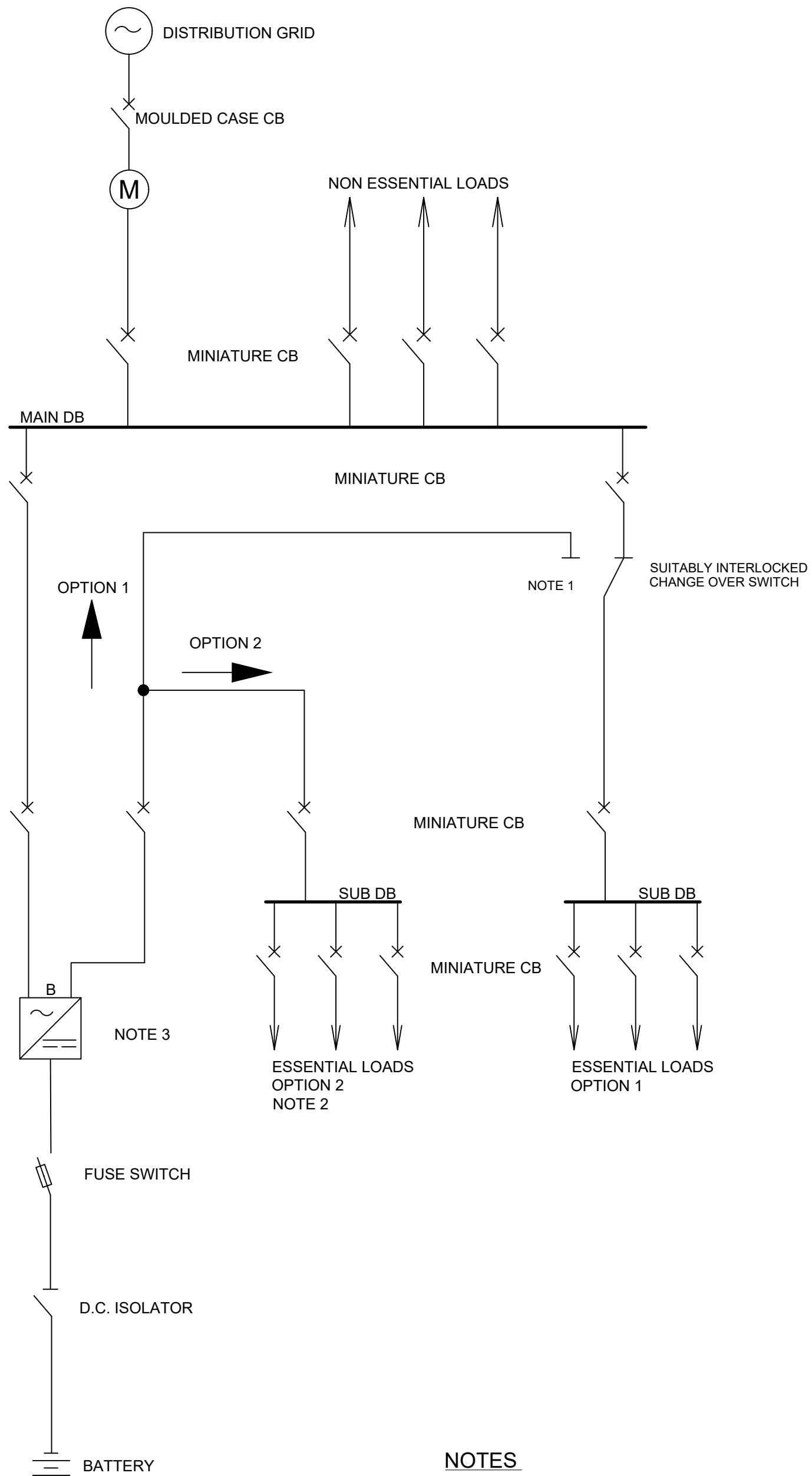
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2	DRAWING REVIEWED	PT.M 05/05/2021
3	DRAWING REVIEWED	PT.M 31/01/2022
4	DRAWING REVIEWED	PT.M 14/06/2023
5	DRAWING REVIEWED	PT.M 27/09/2023
6	XXXXXXXXXX	X.XX 00/00/00



ENERGY GRID DIAGRAMS

COMPILED:	PT MOTEBU
CHECKED:	R. DE KOCK
APPROVED:	A VAN ZYL

GRID-TIED HYBRID SSEG		
SHEET SIZE	DRAWING No. SK5276	SHEET 3



NOTES

1. SANS 60947-6-1 TRANSFER SWITCH
2. NEVER SUPPLIED DIRECTLY BY THE GRID
3. BATTERY BASED INVERTER GRID-TIED WITHOUT SOLAR PANELS

No.	AMENDMENTS	DATE
1	DRAWING REVIEWED	PT.M 27/09/2023
2	XXXXXXXXXX	X.XX 00/00/00
3	XXXXXXXXXX	X.XX 00/00/00
4	XXXXXXXXXX	X.XX 00/00/00
5	XXXXXXXXXX	X.XX 00/00/00
6	XXXXXXXXXX	X.XX 00/00/00

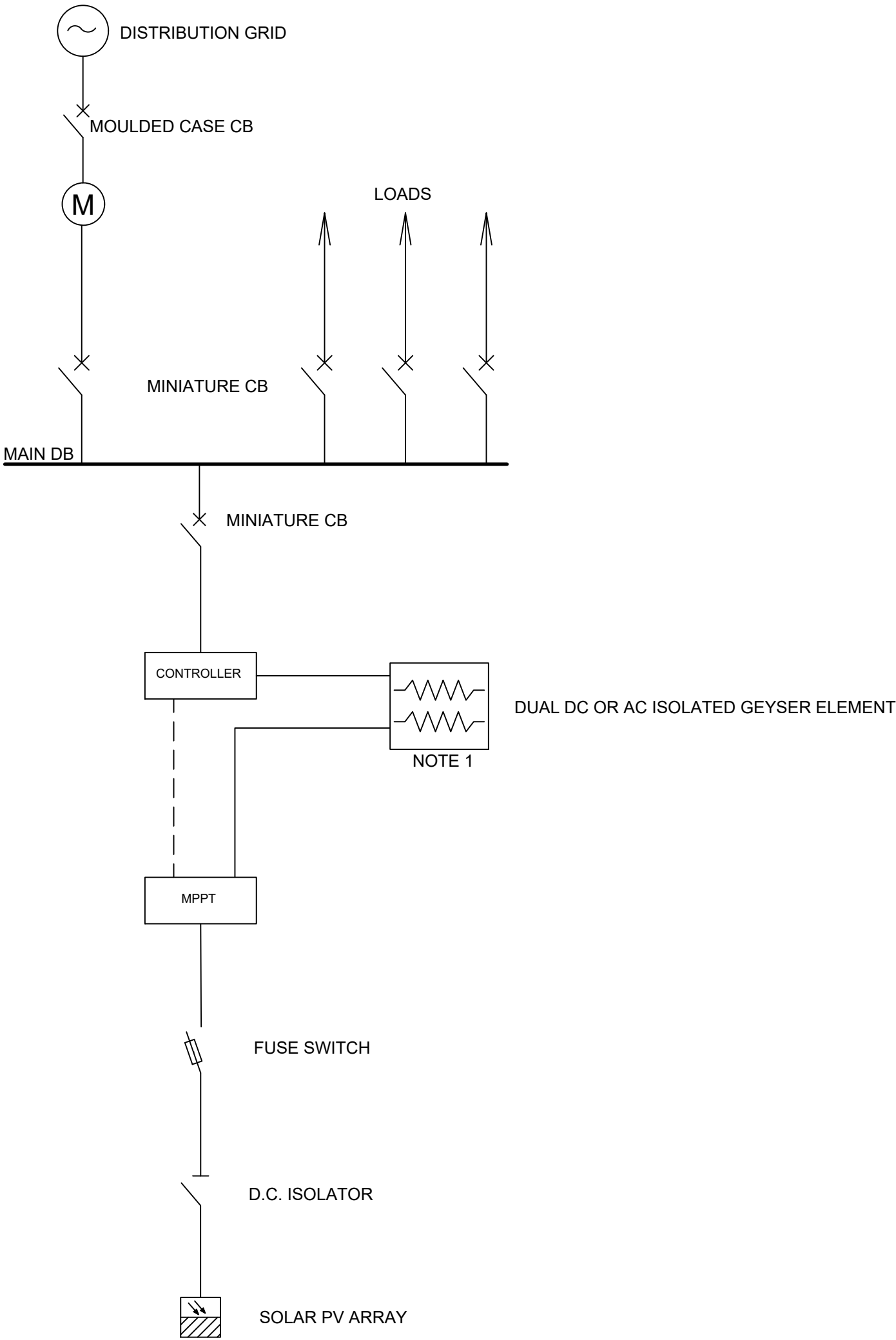


ENERGY GRID DIAGRAMS

COMPILED:	PT MOTEBU
CHECKED:	R. DE KOCK
APPROVED:	A VAN ZYL

GRID-TIED BATTERY ONLY

SHEET SIZE	DRAWING No. SK5276	SHEET 4
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NOTES

1.ELEMENTS COULD BE DC ONLY

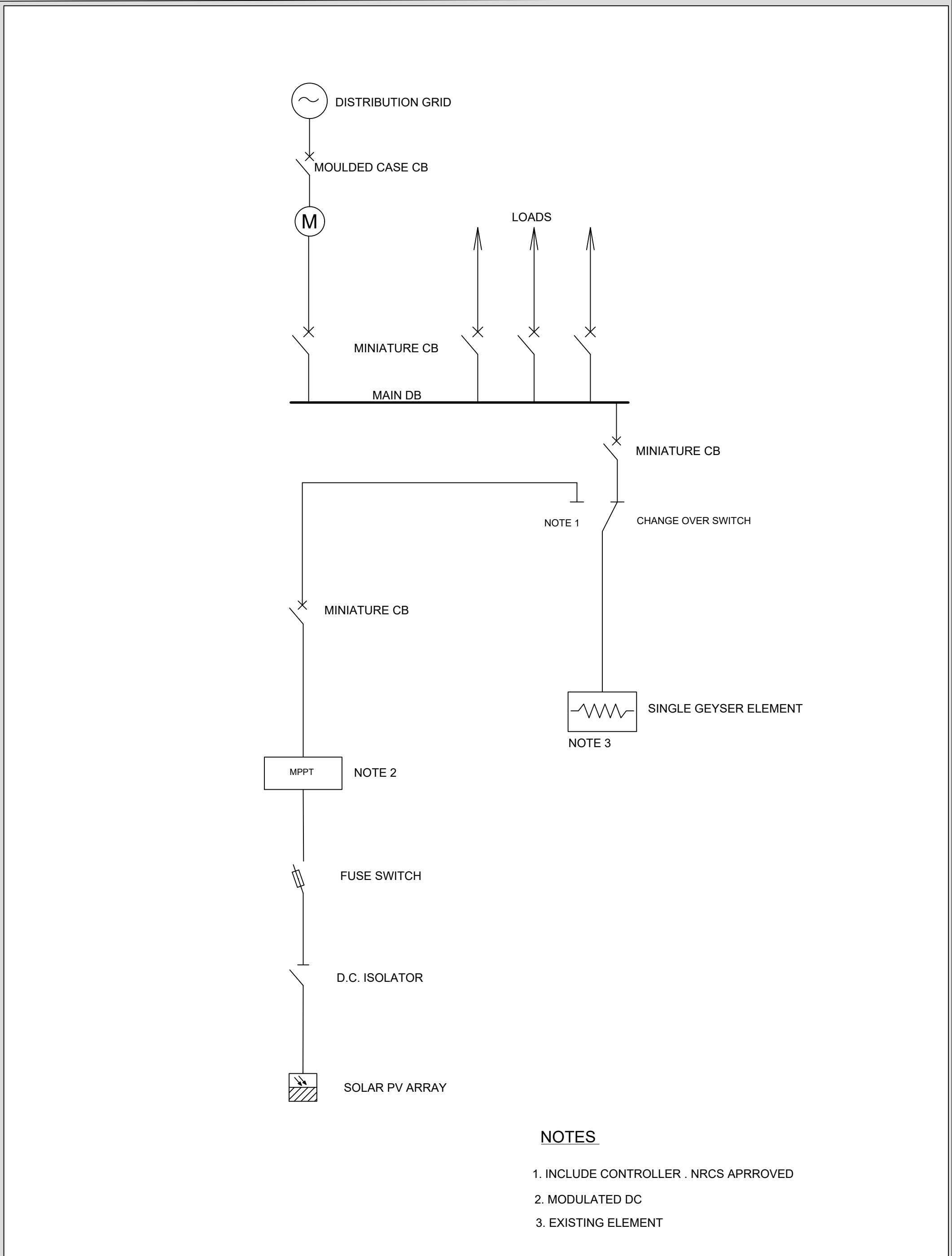
No.	AMENDMENTS	DATE
1	DRAWING REVIEWED	PT.M 27/09/2023
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3	XXXXXXXXXX	X.XX 00/00/00
4	XXXXXXXXXX	X.XX 00/00/00
5	XXXXXXXXXX	X.XX 00/00/00
6	XXXXXXXXXX	X.XX 00/00/00

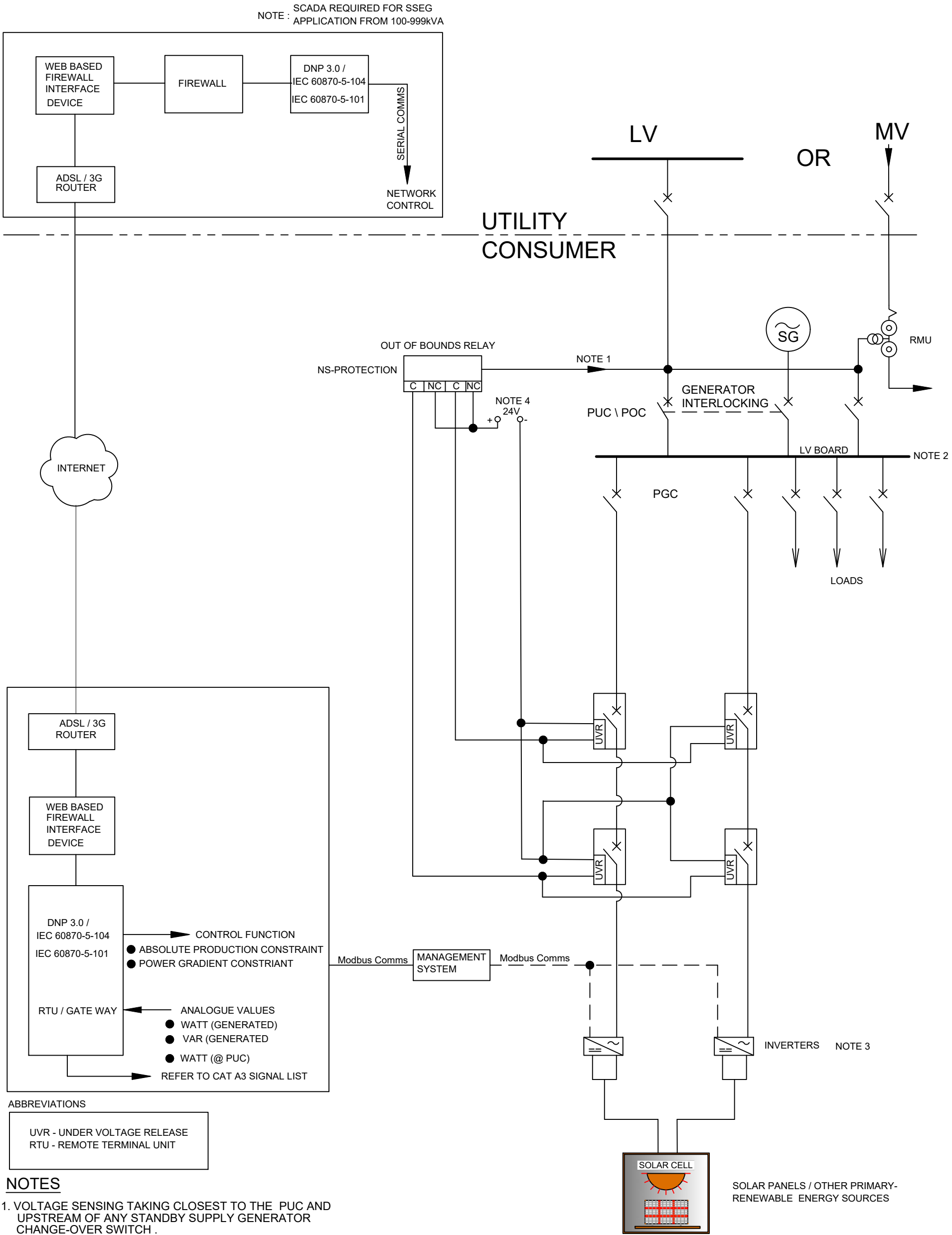


ENERGY GRID DIAGRAMS

COMPILED:	PT MOTEBU
CHECKED:	R. DE KOCK
APPROVED:	A VAN ZYL

SOLAR PV GEYSER: DUAL DC OR AC ISOLATED GEYSER ELEMENT		
SHEET SIZE	DRAWING No. SK5276	SHEET 5.1





NOTES

- VOLTAGE SENSING TAKING CLOSEST TO THE PUC AND UPSTREAM OF ANY STANDBY SUPPLY GENERATOR CHANGE-OVER SWITCH .
- COULD BE MANY DBs SUPPLIED INDIVIDUALLY FROM PUC OR FROM MV RING FED TRANSFORMERS CONNECTED TO THE PUC
- COULD BE DECENTRALIZED LOCATIONS .
- APPROPRIATE V_{dc}, ELSE BACK-UP AC .

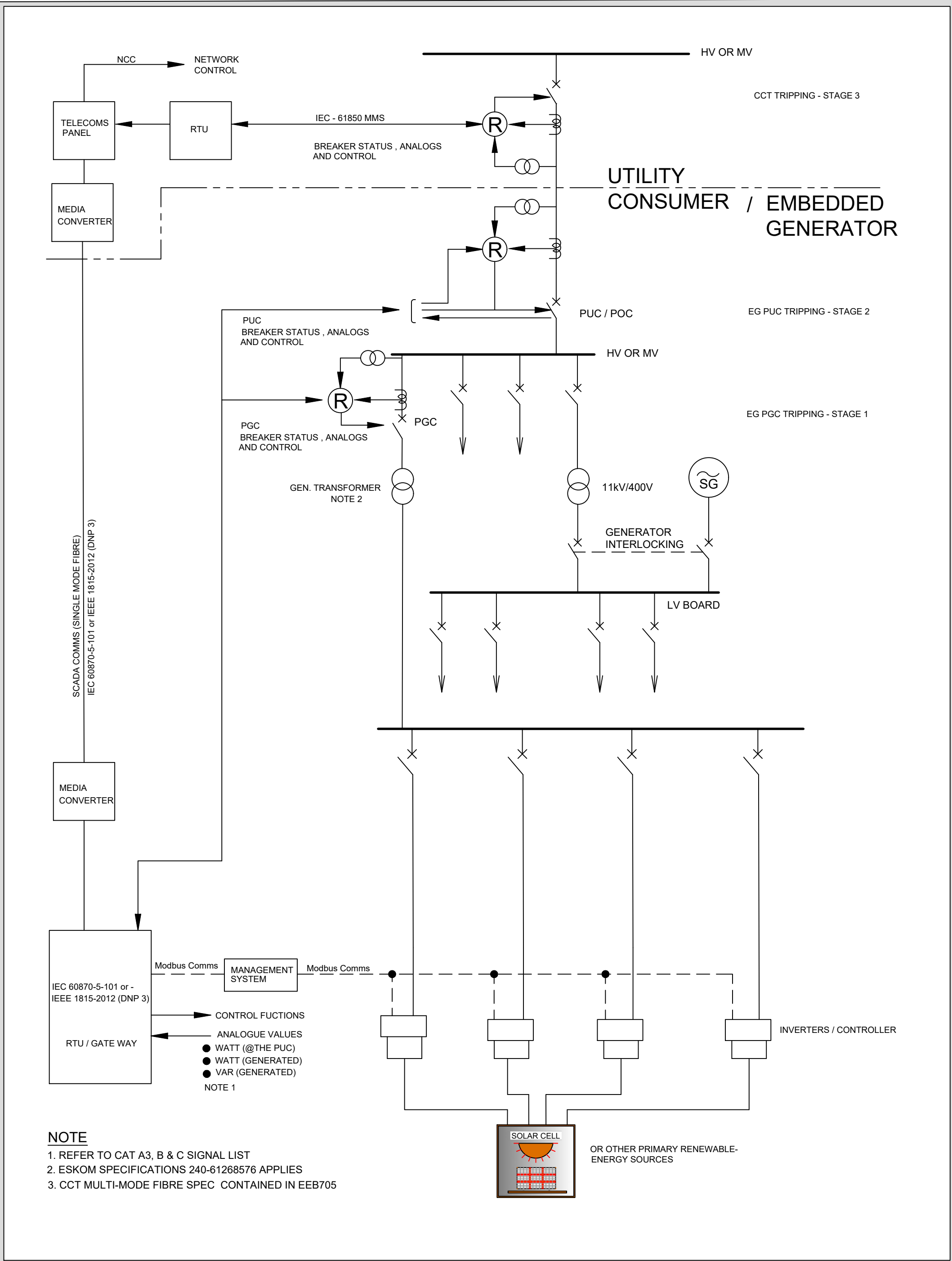
No.	AMENDMENTS	DATE
1	DRAWING NUMBER CHANGED	PT.M 10/11/2019
2	RING MAIN UNIT ADDED	PT.M 10/02/2021
3	DRAWING REVIEWED	PT.M 05/05/2021
4	DRAWING REVIEWED	PT.M 14/06/2023
5	XXXXXXXXXX	X.XX 00/00/00
6	XXXXXXXXXX	X.XX 00/00/00



ENERGY GRID DIAGRAMS

COMPILED:	PT MOTEBU
CHECKED:	R. DE KOCK
APPROVED:	A VAN ZYL

CATEGORY A2 & A3 - LV OR MV CONNECTED WITH CDD		
SHEET SIZE	DRAWING No. SK5276	SHEET 6



NOTE

1. REFER TO CAT A3, B & C SIGNAL LIST
2. ESKOM SPECIFICATIONS 240-61268576 APPLIES
3. CCT MULTI-MODE FIBRE SPEC CONTAINED IN EEB705

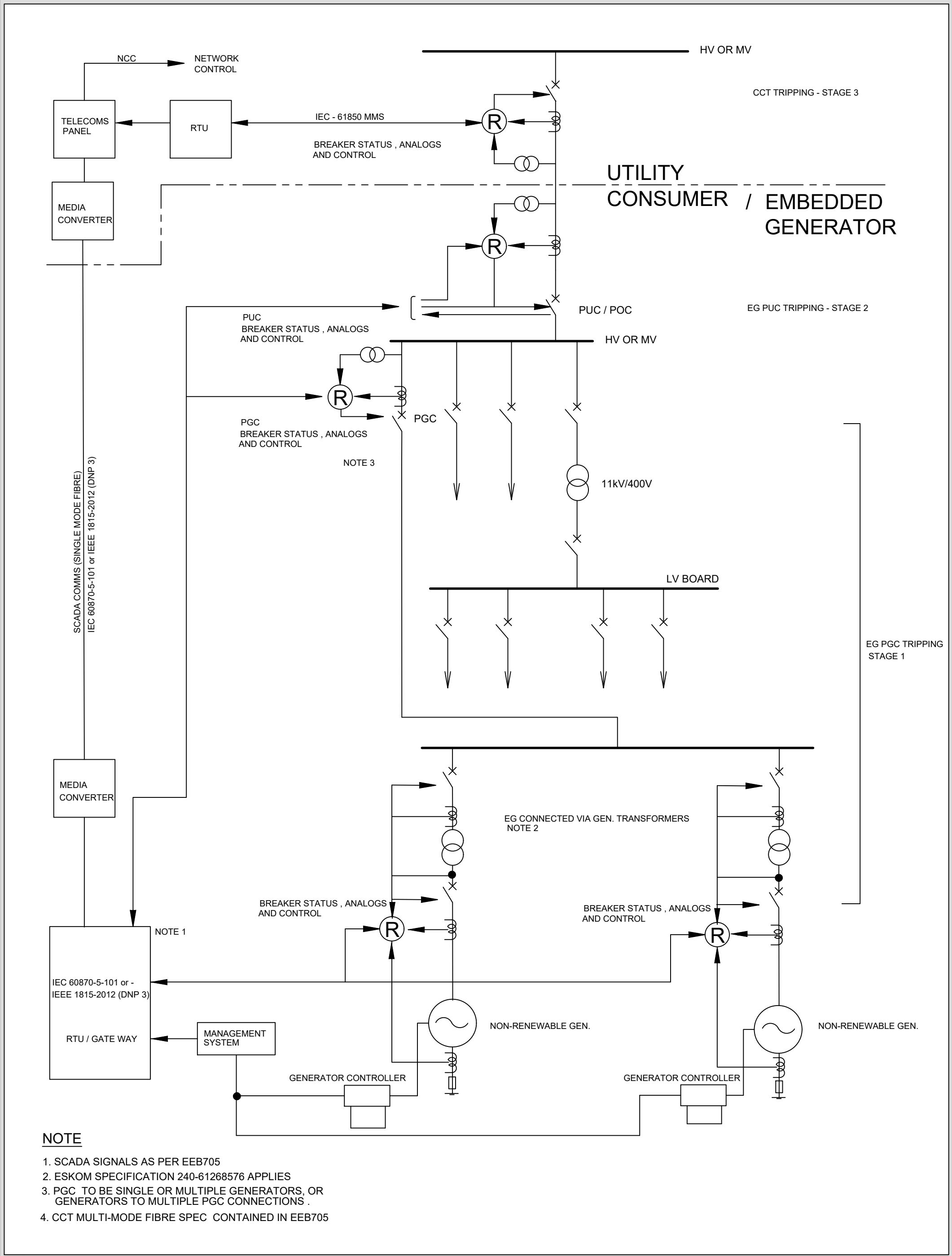
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7	DRAWING REVIEWED	PT.M 23/01/2024
2	DRAWING REVIEWED	PT.M 04/02/2021
3	DRAWING REVIEWED	PT.M 12/02/2021
4	DRAWING REVIEWED	PT.M 24/01/2022
5	DRAWING REVIEWED	PT.M 11/05/2023
6	DRAWING REVIEWED	PT.M 14/06/2023



ENERGY GRID DIAGRAMS

COMPILED:	PT MOTEBU
CHECKED:	R. DE KOCK
APPROVED:	A VAN ZYL

MEDIUM AND HIGH VOLTAGE CONNECTION		
SHEET SIZE	DRAWING No. SK5276	SHEET 8



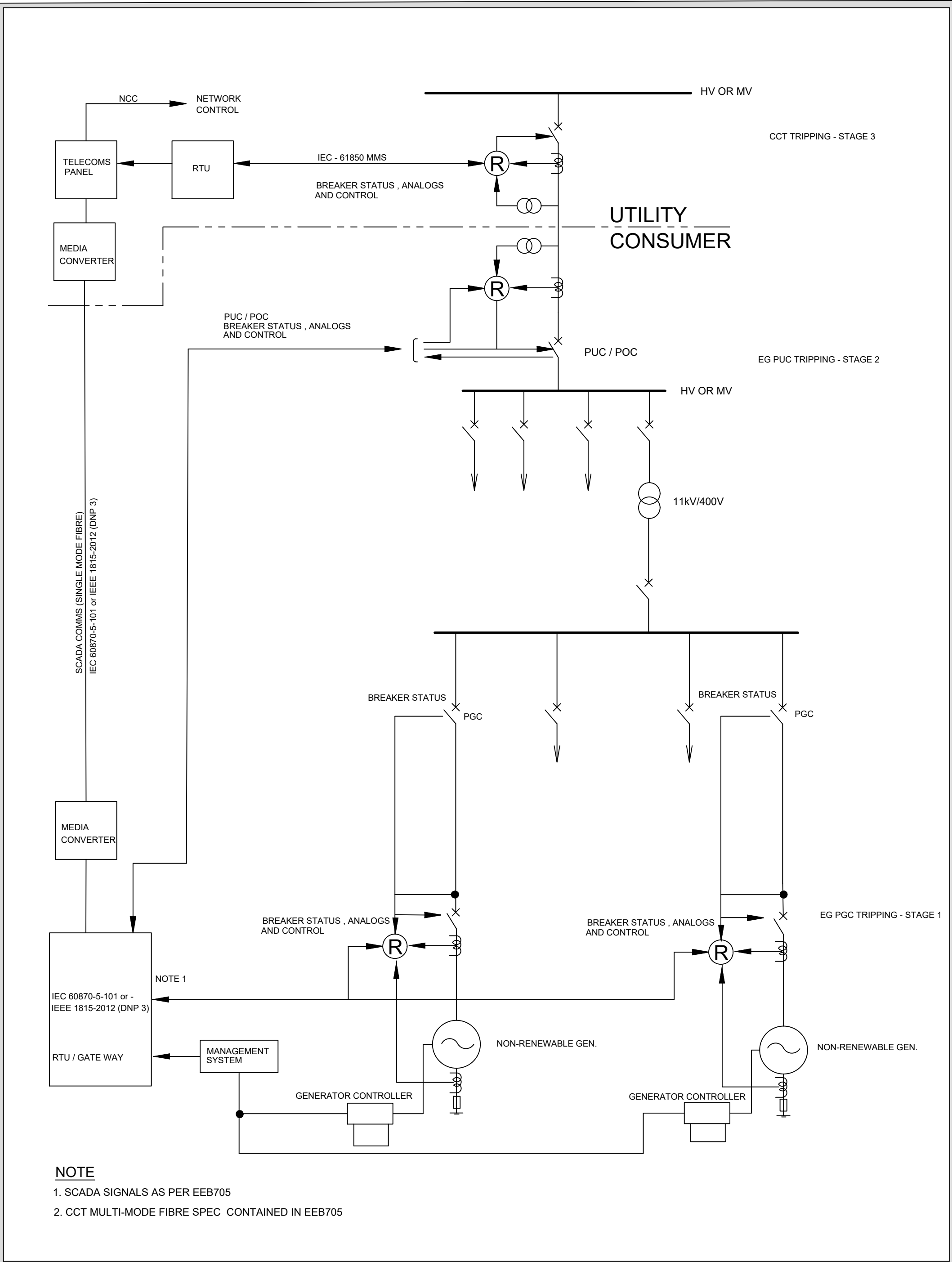
No.	AMENDMENTS	DATE
7	DRAWING REVIEWED	PT.M 23/01/2024
2	DRAWING REVIEWED	PT.M 24/01/2022
3	DRAWING REVIEWED	PT.M 11/05/2023
4	DRAWING REVIEWED	PT.M 14/06/2023
5	XXXXXXXXXX	X. XX 00/00/00
6	XXXXXXXXXX	X. XX 00/00/00



ENERGY GRID DIAGRAMS

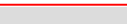
COMPILED:	PT MOTEBU
CHECKED:	R. DE KOCK
APPROVED:	A VAN ZYL

NON RENEWABLE GENERATOR (GENERATOR TRANSFORMER)		
SHEET SIZE	DRAWING No. SK5276	SHEET 10



NOTE

- 1. SCADA SIGNALS AS PER EEB705
- 2. CCT MULTI-MODE FIBRE SPEC CONTAINED IN EEB705

AMENDMENTS			DATE	 CITY OF CAPE TOWN ISIXEKO SASEKAPA STAD KAAPSTAD Making progress possible. Together.	ENERGY GRID DIAGRAMS			COMPILED:	PT MOTEBU	NON RENEWABLE GENERATOR (LV EMBEDDED)		
7	DRAWING REVIEWED	PT.M	23/01/2024		CHECKED:	R. DE KOCK	SHEET SIZE	DRAWING No.	SHEET			
2	DRAWING REVIEWED	PT.M	24/01/2022		APPROVED: <th>A VAN ZYL</th> <td></td> <td>SK5276</td> <td>11</td>	A VAN ZYL		SK5276	11			
3	DRAWING REVIWED	PT.M	11/05/2023									
4	DRAWING REVIEWED	PT.M	14/06/2023									
5	XXXXXXXXXXXX	X. XX	00/00/00									
6	XXXXXXXXXXXX	X. XX	00/00/00									