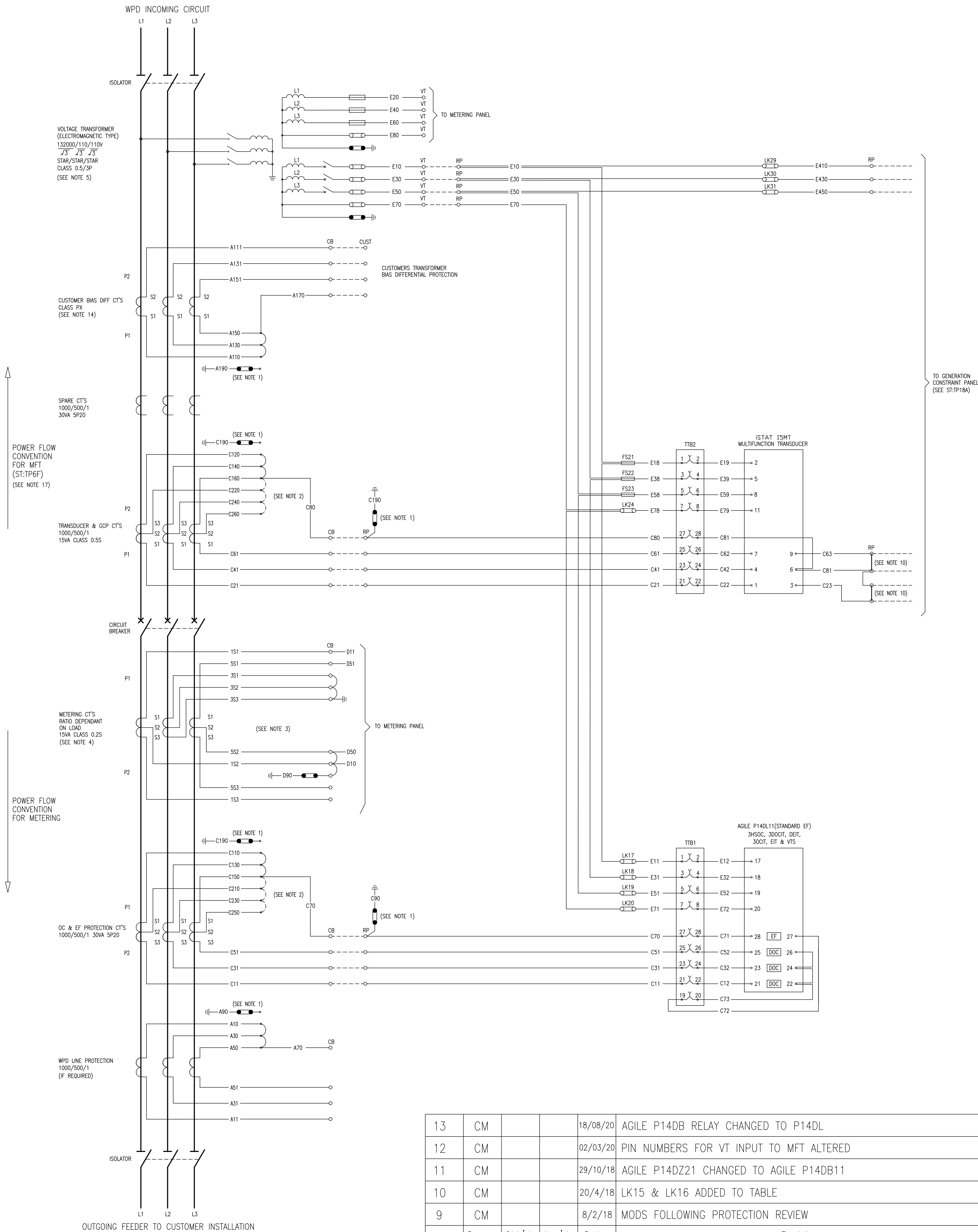




FUSE & LINK TABLE				
REF	INSCRIPTION		FUSE	LINK
FS1	TRIP & CLOSE SUPPLY +VE	110V DC	16A	
LK2	TRIP & CLOSE SUPPLY -VE	110V DC		LINK
FS3	CLOSING	110V DC	6A	
4				
LK5	PROTECTION TRIP ISOLATION	110V DC		LINK
LK6	OC & EF TRIP ISOLATION	110V DC		LINK
7				
LK8	CUSTOMER INTERTRIP SEND ISOLATION	110V DC		LINK
LK9	CUSTOMER INTERTRIP SEND ISOLATION	110V DC		LINK
LK10	CUSTOMER INTERTRIP RECEIVE ISOLATION	110V DC		LINK
LK11	CUSTOMER INTERTRIP RECEIVE ISOLATION	110V DC		LINK
12				
LK13	WPD INTERTRIP RECEIVE ISOLATION	110V DC		LINK
LK14	WPD INTERTRIP RECEIVE ISOLATION	110V DC		LINK
LK15	CUSTOMER DISCONNECTOR INTERLOCK ISOLATION	110V DC		LINK
LK16	CUSTOMER DISCONNECTOR INTERLOCK ISOLATION	110V DC		LINK
LK17	DOC PROTECTION VT SUPPLY ISOLATION (L1)	110V AC		LINK
LK18	DOC PROTECTION VT SUPPLY ISOLATION (L2)	110V AC		LINK
LK19	DOC PROTECTION VT SUPPLY ISOLATION (L3)	110V AC		LINK
LK20	DOC PROTECTION VT SUPPLY ISOLATION (N)	110V AC		LINK
FS21	TRANSDUCER VT SUPPLY (L1)	110V AC	2A	
FS22	TRANSDUCER VT SUPPLY (L2)	110V AC	2A	
FS23	TRANSDUCER VT SUPPLY (L3)	110V AC	2A	
LK24	TRANSDUCER VT SUPPLY (N)	110V AC		LINK
25				
26				
27				
28				
LK29	VOLTAGE CONSTRAINT VT SUPPLY ISOLATION (L1)	110V AC		LINK
LK30	VOLTAGE CONSTRAINT VT SUPPLY ISOLATION (L2)	110V AC		LINK
LK31	VOLTAGE CONSTRAINT VT SUPPLY ISOLATION (L3)	110V AC		LINK
32				
FS33	COMMON ALARMS SUPPLY +VE	110V DC	2A	
LK34	COMMON ALARMS SUPPLY -VE	110V DC		LINK
FS35	INDICATION AC/DC SUPPLY	110V AC/DC	2A	
LK36	INDICATION AC/DC SUPPLY	110V AC/DC		LINK
FS37	TRANSDUCER AUXILIARY SUPPLY +VE	110V DC	2A	
LK38	TRANSDUCER AUXILIARY SUPPLY -VE	110V DC		LINK
FS39	110V DC INDICATION SUPPLY +VE	110V DC	2A	
LK40	110V DC INDICATION SUPPLY -VE	110V DC		LINK
FS41	SWITCHED INDICATION BUSWIRE SUPPLY	110V AC/DC	2A	
FS42	SWITCHED INDICATION BUSWIRE SUPPLY	110V AC/DC		2A
FS43	240/110V AC AUX. TRANSFORMER SUPPLY PH	240V AC	4A	
LK44	240/110V AC AUX. TRANSFORMER SUPPLY N	240V AC		LINK
FS45	AC INDICATION SUPPLY	110V AC	4A	
FS46	AC INDICATION SUPPLY	110V AC	4A	
FS47	CUBICLE ILLUMINATION SUPPLY PH	240V AC	2A	
LK48	CUBICLE ILLUMINATION SUPPLY N	240V AC		LINK

FUSE & LINK LABELLING TO BE RED LETTERING ON WHITE BACKGROUND TO DENOTE TRIPPING TO OTHER PANELS.

NOTES

- CT'S NORMALLY EARTHED IN RELAY PANEL. HOWEVER, THE MANUFACTURER IS TO PROVIDE THE FACILITY FOR EARTHING AT THE SWITCHGEAR
- FOR LOWER CT RATIO DISCONNECT LOOPS AS SHOWN & RECONNECT AS DOTTED
- METERING CT FERRULING SHOWN TO IDENTIFY PHASE & CT TERMINAL I.E.
S1 - L1 PHASE & CT TERMINAL S1
S2 - L2 PHASE & CT TERMINAL S1
S3 - L3 PHASE & CT TERMINAL S1
MANUFACTURERS CT FERRULING SYSTEM MAY DIFFER TO THAT SHOWN, BUT MUST CLEARLY IDENTIFY THE PHASE & CT TERMINAL S1, S2 & S3 AT THE MULTICORE TERMINAL BLOCK. FOR LOW RATIO USE S1 & S2 (AS SHOWN) AND FOR HIGH RATIO USE S1 & S3
- 2 SETS OF METERING CT'S ARE REQUIRED FOR CIRCUIT CAPACITIES GREATER THAN 100MVA
- CLASS 0.2/3P REQUIRED FOR CIRCUIT CAPACITIES GREATER THAN 100MVA
- THIS DRAWING TO BE READ IN CONJUNCTION WITH LATEST VERSION OF EE-SPEC 7, 87 & 98 AS APPROPRIATE
- TELECONTROL INTERPOSING RELAYS TO BE FITTED WITH ARC SUPPRESSION DIODES
- SPRING CHARGING MOTOR & MECH BOX HEATER SUPPLY TO BE DERIVED FROM A SEPARATE SOURCE OF SUPPLY
- K1 & K3 WIRE TO ALLOW TRIP CIRCUIT SUPERVISION TO MONITOR ALL LOOPS TO CIRCUIT BREAKER TRIP COIL
- SHORTING LINKS TO BE REMOVED ON CONNECTION OF REMOTE SOFT INTERTRIP/ VOLTAGE CONSTRAINT PANEL.
- THIS DRAWING SHOWS A TYPICAL CB WITH 2 STAGES OF SF6 LOW ALARMS AND WHERE THE TRIP & CLOSE INHIBIT IS PERFORMED DIRECTLY WITHIN THE CB
- A CLOSE INHIBIT CONTACT MAY BE REQUIRED FOR GENERATION CONNECTIONS FROM THE CUSTOMERS G59 CB AUX CONTACT 'b'
- THE MCAA RELAY SHOULD BE SELECTED TO ENSURE CORRECT OPERATION WITH THE CB TRIP COIL/ACTUATOR. AN APPROPRIATE MCAA11 OR MCAA12 (S/R CONTACTS) MAY BE USED.
- THE CUSTOMER IS TO PROVIDE INSTANTANEOUS PROTECTION ACROSS WPD CB & THE CUSTOMERS TRANSFORMER. THE CUSTOMER SHALL PROVIDE THEIR CLASS PX CT SPECIFICATION PRIOR TO THE PURCHASE OF THE WPD CB.
- THE DIRECTION OF POWER FLOW FOR MFT IS SHOWN FOR A SINGLE CIRCUIT TEE OFF ARRANGEMENT (CONVENTION IN ACCORDANCE WITH ST:PP6F). FOR OTHER ARRANGEMENTS I.E. LOOP IN OR BUSBAR, CONSIDERATION MUST BE GIVEN TO POWER FLOW CONVENTIONS

13	CM			18/08/20	AGILE P14DB RELAY CHANGED TO P14DL	ORIGINAL ISSUE	Date
12	CM			02/03/20	PIN NUMBERS FOR VT INPUT TO MFT ALTERED	Drawn	CM 3/5/12
11	CM			29/10/18	AGILE P14DZ21 CHANGED TO AGILE P14DB11	Checked	
10	CM			20/4/18	LK15 & LK16 ADDED TO TABLE	Approved	
9	CM			8/2/18	MODS FOLLOWING PROTECTION REVIEW	SCALE:	NTS
Rev No	Drawn	Chk'd	App'd	Date	Revision		

WESTERN POWER DISTRIBUTION Design Department. Avonbank, Feeder Road, Bristol BS2 0TB Tel: 0117 933 2000 Fax: 0117 933 2001.		WESTERN POWER DISTRIBUTION	
Title		AC PROTECTION FOR 145kV FREE STANDING METERING CIRCUIT BREAKER	
Drg. No.		SPC145M1-AC	
Rev No.		13	