ARC FLASH HAZARD ASSESSMENT RESULTS
CALCULATION ASSESSMENT
MAIN SWITCHBOARD

ASSESSED USING CALCULATION METHOD DS29, VERSION 1 REVISION 3				
ACTIVITY	MINIMUM PPE CATEGORY		DATE APRIL 2016	
	DOOR OPEN	DOOR CLOSED		
INCOMER			INCOMER ENERGY	
Racking	CAT 0	CAT 0	Incident Energy @ 455 mm	1.2 cal/cm^2
Switching	CAT 0	CAT 0	Arc Flash Boundary Whilst Switching	455 mm clear space
			Incomer Insulated – Risk Assessed	
NON–INCOMER CIRCUITS			BUSBAR ENERGY	
Switching or Racking	CAT 0	CAT 0	Incident Energy @ 455 mm	1.2 cal/cm^2
Live Electrical testing (Power Circuits)	CAT 0	CAT 0	Arc Flash Boundary Whilst Switching	455 mm clear space
Operating Controls	CAT 0	CAT 0		
Visual Inspection (Live Parts)	CAT 0	CAT 0		

ARC FLASH HAZARD ASSESSMENT RESULTS
CALCULATION ASSESSMENT
PUMP STATION SWITCHBOARD

ASSESSED USING CALCULATION METHOD DS29, VERSION 1 REVISION 3				
ACTIVITY	MINIMUM PPE CATEGORY		DATE APRIL 2016	
	DOOR OPEN	DOOR CLOSED		
INCOMER			INCOMER ENERGY	
Racking	N/A	CAT 0	Incident Energy @ 455 mm	1.2 cal/cm^2
Switching	CAT 0	CAT 0	Arc Flash Boundary Whilst Switching	455 mm clear space
			Incomer Insulated – Risk Assessed	
NON–INCOMER CIRCUITS			BUSBAR ENERGY	
Switching or Racking	CAT 0	CAT 0	Incident Energy @ 455 mm	1.2 cal/cm^2
Live Electrical testing (Power Circuits)	CAT 0	CAT 0	Arc Flash Boundary Whilst Switching	455 mm clear space
Operating Controls	CAT 0	CAT 0		
Visual Inspection (Live Parts)	CAT 0	CAT 0		

CAUTION
VALUES SHOWN ARE INDICATIVE ONLY, DRAWING IS ONLY A PRESENTATION EXAMPLE OF A COMPLETED DESIGN

ISSUE	DATE	GRID	REVISION	DRN	REC	APPD
C	07/2021		ARC FLASH TABLES REVISED; CAUTION NOTE ADDED	PH	TL	EG
B	11/2019		ARC FLASH TABLES REVISED	PH	EG	NJ

DESIGN SURVEY NONE | VERTICAL DATUM NONE | COORDINATE SYS NONE | ASCON SURVEY NONE | DES REF | DES CALC E FONG | DES CHD K O'GRADY | DRN P HARVEY | Q.C. CHD S MEMORY | NORTH POINT

SUBMITTED 24/07/2017 E FONG (SIGNED) SENIOR ENGINEER – ELECTRICAL

RECOMMENDED 24/07/2017 K O'GRADY (SIGNED) PRINCIPAL ENGINEER – ELECTRICAL

APPROVED 24/07/2017 N JOHNSON (SIGNED) SNR PRINCIPAL ENGINEER – ELECT

ENGINEERING

WATER CORPORATION

ELECTRICAL STANDARD SWITCHBOARD DESIGNS
SMALL PUMP STATIONS
ELECTRICAL PRIMARY DESIGN – DRAWING EXAMPLE
WASTEWATER 440A – PROTECTION GRADING CURVES – PART 2

FILE | PLAN MN01–32–4.2 | CAD | ISSUE C | ORIGINAL SHEET SIZE A1
PROJECT | MF

566 810

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