			E	EMBEDDE	D GENERA	TOR - S	INGLE LI	NE DIAG	RAM (FOR CON	STR	UCTIO	N)
Equipme	nt Schedu	ıle											
Total System Capacity (kW) (Rating of all Inverters)							Point of Sup	ply (POS)					
Inverte	er A Details							>(A)					
Manufacturer							Meter (M)					
Model Name					Main	Switchboard (M	SB)						
Model Number					[<u> </u>			_!			
Rating (kW)										I			
Quantity							×	,	Protection R	elay			
Inverte	er B Details							 					
Manufacturer	Decano								27				
Model Name						To Other Load		J	46				
Model Number						Circuits	$\left \right $	<u></u> ↓	59				
Rating (kW)								CT Input	78				
Quantity							Circuit Breaker	- VT Input	81 U				
Inverte	or C Dotails						*/ I	+ ×_ Trip Output	810				
Manufacturer									010				
Model Name									81 R				
Model Number						Load Circuit							
Rating (kW)								i i					
Quantity								B					Ра
													0
Pane	el Details												
Madal Nama				IES Di	stribution Board (IES D	B)		_			,		
Model Number													Ro
Total Number of PV Panels								×,					Ve
Individual Panel Rating (W)								(ļ		Ph
Total Panel Bating (kW)													Re
											Τ		1.R
Interconnection Pr	rotection Rela	y Details			*/		*/				*/		2.1
Manufacturer				└ ─ ─ ─							<u>+</u>		Pa
Model Name				<	C C			>C			\mathbb{P}	-(C)	
Model Number					<u>}</u>								
Cable	e Schedule				Inverter A		\sim	Inverter B			, ,	nverter C	Sus
Section Description	Cable Size (mm ²)	Longest Run (m)	Voltage Rise (%)					_					Un
C IES TO IES DB													Un
B IES DB TO MSB					$1\overline{0}\overline{0}\overline{0}$			$\langle \langle \langle \langle \langle \langle \rangle \rangle \rangle \rangle \rangle$		$ \triangleleft \triangleleft \triangleleft \triangleleft <$	1 < <	$\langle \langle \langle$	Act
A MSB TO POS													ma
Total Voltage R	ise (%)				<w panels<="" td=""><td></td><td> x</td><td>W Panels</td><td></td><td> :</td><td>x</td><td>W Panels</td><td>Re</td></w>		x	W Panels		:	x	W Panels	Re
NOTES:		Inst	allation Com	ipany						Project Name			
1. This Single Line Diagram is for AusN purposes only. It is not intended for any and no liability is accepted for any items	let Services other purposes s included or not	Ado	lress							Customer Name	е		



 NOTES: 1. This Single Line Diagram is for AusNet Services purposes only. It is not intended for any other purposes and no liability is accepted for any items included or not included as required to meet Statutory or Regulatory compliance. 2. All installation works shall comply with; AS3000, AS3008, AS5033, AS4777, CEC Guidelines, Victorian Service & Installations Rules and all AusNet Services Standard Operating Proceedures. 	Installation Company	Project Name	
	Address	Customer Name	
	Contact Number	Supply Address	
	Email	Town	
	Registered Electrical Contractor	NMI	

AusNet Services Mandatory Settings					
Volt-Watt Response Set-Point Values					
Reference	Voltage (V) Power % Rated Po				
V1	207	100%			
V2	220	100%			
V3	253	100%			
V4	259	20%			
Volt-VAr Response Set-Point Values					
Reference	Voltage (V)	VAr % Rated VA			
V1	208	44% (exporting VArs)			
V2 220		0%			
V3	241	0%			
V4	253	44% (sinking VArs)			

Interconnection Protection Relay Settings ¹					
Parameter	Setting	Disconnection Time			
Overvoltage (59)	260 V	2 sec			
Undervoltage (27)	180 V	2 sec			
Over Frequency (81O)	52 Hz	2 sec			
Under Frequency (81U)	47.5 Hz	2 sec			
RoCoF (81R)	2 Hz/s	1 sec			
Vector Shift (78)	8 Deg	1 sec			
Phase Balance (46) ²	21.7 A	2 sec			
Reconnection Delay	60 sec				

1. Refer to SOP 11-16 - Protection Requirements of Embedded Generators <5 MVA 2. Not applicable when using ONLY A S4777.1approved three phase inverters

Inverter Protection Settings					
Parameter	Setting	Disconnection Time			
Over-voltage 1 (V>)	260 V	2 sec			
Over-voltage 2 (V>>)	265 V	0.2 sec			
Sustained operation for voltage variations (V _{nom-max})	258 V	3 sec			
Under-voltage (V<)	180 V	2 sec			
Over Frequency	52 Hz	0.2 sec			
Under Frequency	47 Hz	2 sec			
Active anti-islanding or loss of mains (LoM)	-	2 sec			
Reconnection Delay	60 sec				

Date

Rev