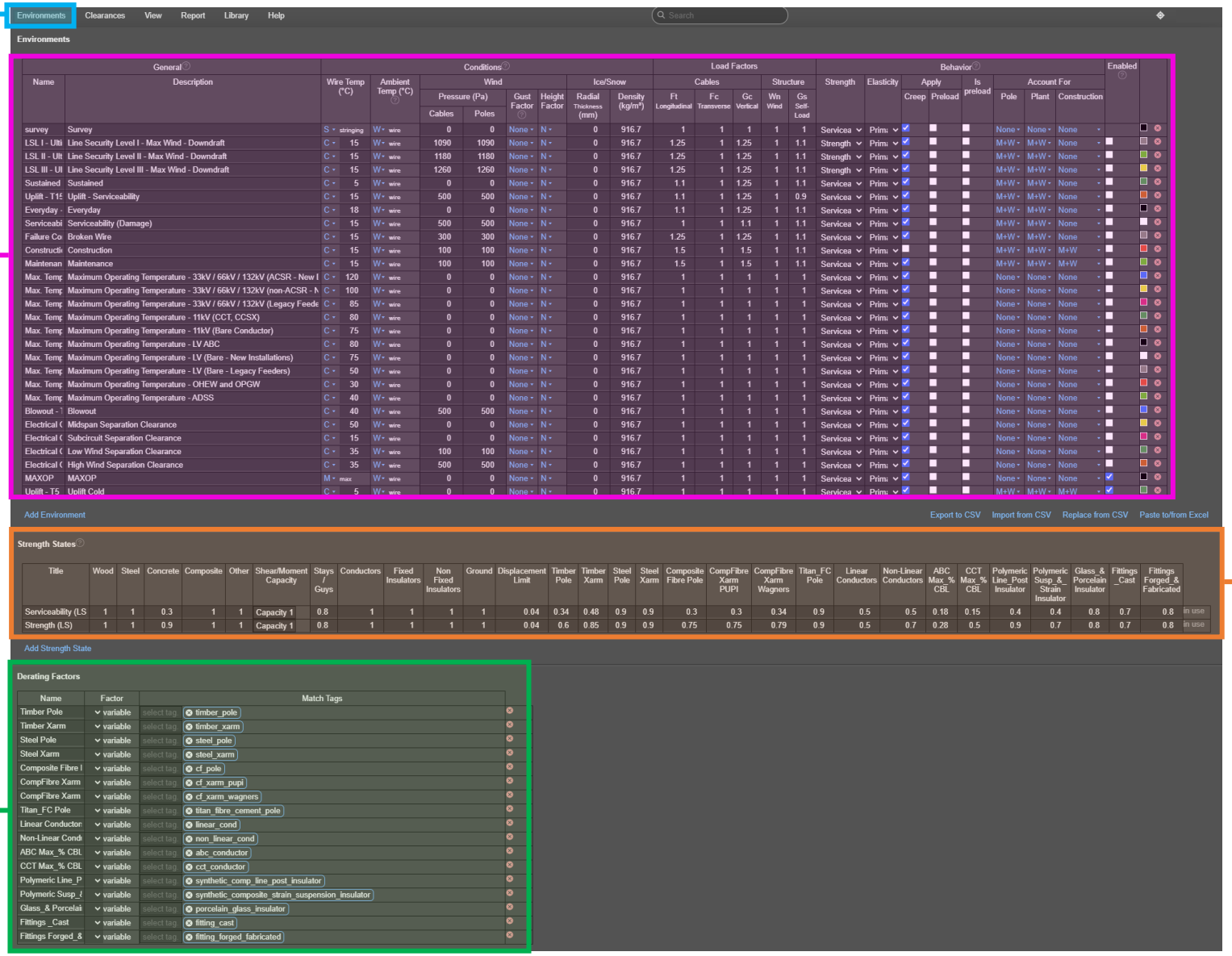
Environments library tab

Environments library and definitions

Derating Factors definition and tags

Component Strength States & Strength Factors - refer to NS220 Table 7



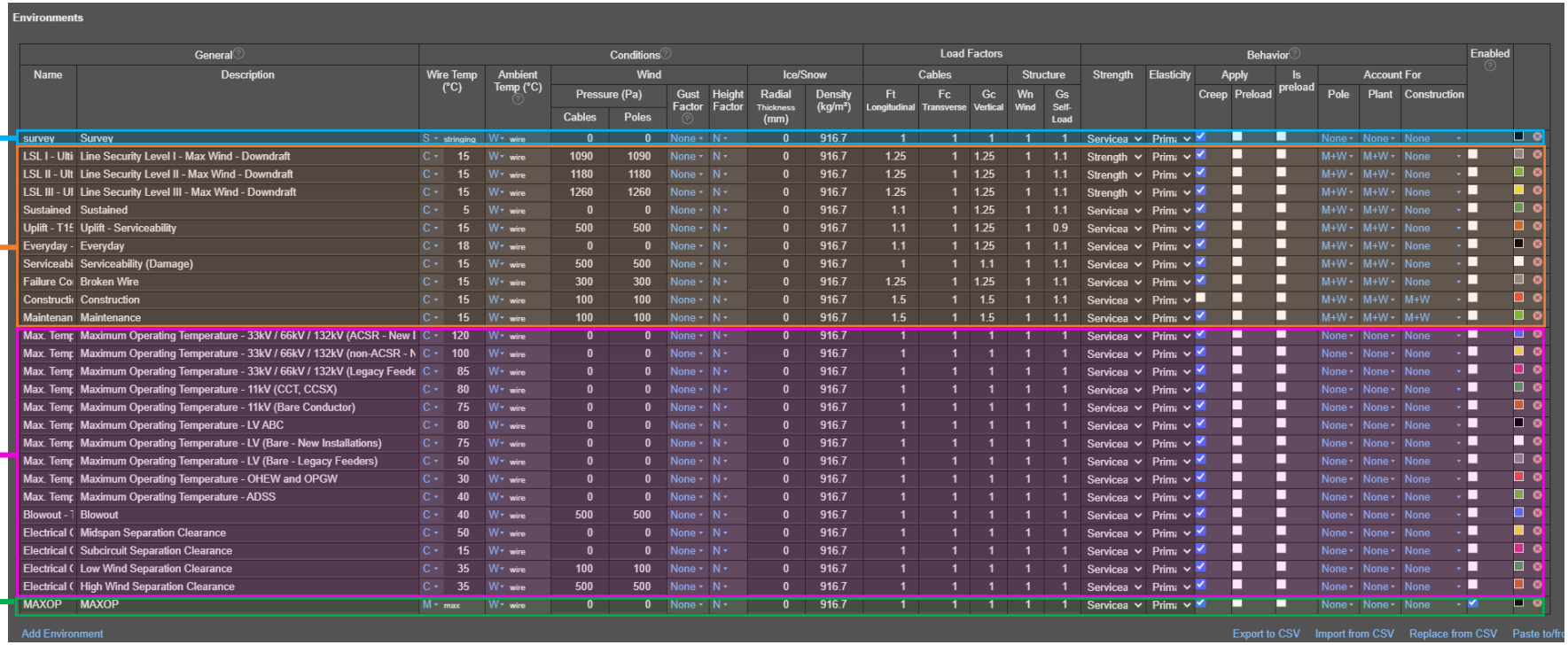
Environment Definitions

'Survey' - Neara definition based on LiDAR-defined temperature

Load case conditions - refer to NS220 Table 2

Line temperature conditions - refer to NS220 Table 5

'MAXOP' - Neara definition based on conductor and voltage



Environments

General		Conditions								Load Factors					Behavior								Enabled
Name	Description	Wire Temp (°C)	Ambient Temp (°C)	Wind				Ice/Snow		Cables			Structure		Strength	Elasticity	Apply		Is preload	Account For			
				Pressure (Pa)		Gust Factor	Height Factor	Radial Thickness (mm)	Density (kg/m³)	Ft Longitudinal	Fc Transverse	Gc Vertical	Wn Wind	Gs Self-Load			Creep	Preload		Pole	Plant	Construction	
				Cables	Poles																		
survey	Survey	S stringing	W wire	0	0	None	N	0	916.7	1	1	1	1	1	Servicea	Prima	☑	☐	☐	None	None	None	☐
LSL I - Ulti	Line Security Level I - Max Wind - Downdraft	C 15	W wire	1090	1090	None	N	0	916.7	1.25	1	1.25	1	1.1	Strength	Prima	☑	☐	☐	M+W	M+W	None	☐
LSL II - Ult	Line Security Level II - Max Wind - Downdraft	C 15	W wire	1180	1180	None	N	0	916.7	1.25	1	1.25	1	1.1	Strength	Prima	☑	☐	☐	M+W	M+W	None	☐
LSL III - Ul	Line Security Level III - Max Wind - Downdraft	C 15	W wire	1260	1260	None	N	0	916.7	1.25	1	1.25	1	1.1	Strength	Prima	☑	☐	☐	M+W	M+W	None	☐
Sustained	Sustained	C 5	W wire	0	0	None	N	0	916.7	1.1	1	1.25	1	1.1	Servicea	Prima	☑	☐	☐	M+W	M+W	None	☐
Uplift - T15	Uplift - Serviceability	C 15	W wire	500	500	None	N	0	916.7	1.1	1	1.25	1	0.9	Servicea	Prima	☑	☐	☐	M+W	M+W	None	☐
Everyday -	Everyday	C 18	W wire	0	0	None	N	0	916.7	1.1	1	1.25	1	1.1	Servicea	Prima	☑	☐	☐	M+W	M+W	None	☐
Serviceabi	Serviceability (Damage)	C 15	W wire	500	500	None	N	0	916.7	1	1	1.1	1	1.1	Servicea	Prima	☑	☐	☐	M+W	M+W	None	☐
Failure Co	Broken Wire	C 15	W wire	300	300	None	N	0	916.7	1.25	1	1.25	1	1.1	Servicea	Prima	☑	☐	☐	M+W	M+W	None	☐
Constructi	Construction	C 15	W wire	100	100	None	N	0	916.7	1.5	1	1.5	1	1.1	Servicea	Prima	☐	☐	☐	M+W	M+W	M+W	☐
Maintenan	Maintenance	C 15	W wire	100	100	None	N	0	916.7	1.5	1	1.5	1	1.1	Servicea	Prima	☑	☐	☐	M+W	M+W	M+W	☐
Max. Temp	Maximum Operating Temperature - 33kV / 66kV / 132kV (ACSR - New I	C 120	W wire	0	0	None	N	0	916.7	1	1	1	1	1	Servicea	Prima	☑	☐	☐	None	None	None	☐
Max. Temp	Maximum Operating Temperature - 33kV / 66kV / 132kV (non-ACSR - N	C 100	W wire	0	0	None	N	0	916.7	1	1	1	1	1	Servicea	Prima	☑	☐	☐	None	None	None	☐
Max. Temp	Maximum Operating Temperature - 33kV / 66kV / 132kV (Legacy Feede	C 85	W wire	0	0	None	N	0	916.7	1	1	1	1	1	Servicea	Prima	☑	☐	☐	None	None	None	☐
Max. Temp	Maximum Operating Temperature - 11kV (CCT, CCSX)	C 80	W wire	0	0	None	N	0	916.7	1	1	1	1	1	Servicea	Prima	☑	☐	☐	None	None	None	☐
Max. Temp	Maximum Operating Temperature - 11kV (Bare Conductor)	C 75	W wire	0	0	None	N	0	916.7	1	1	1	1	1	Servicea	Prima	☑	☐	☐	None	None	None	☐
Max. Temp	Maximum Operating Temperature - LV ABC	C 80	W wire	0	0	None	N	0	916.7	1	1	1	1	1	Servicea	Prima	☑	☐	☐	None	None	None	☐
Max. Temp	Maximum Operating Temperature - LV (Bare - New Installations)	C 75	W wire	0	0	None	N	0	916.7	1	1	1	1	1	Servicea	Prima	☑	☐	☐	None	None	None	☐
Max. Temp	Maximum Operating Temperature - LV (Bare - Legacy Feeders)	C 50	W wire	0	0	None	N	0	916.7	1	1	1	1	1	Servicea	Prima	☑	☐	☐	None	None	None	☐
Max. Temp	Maximum Operating Temperature - OHEW and OPGW	C 30	W wire	0	0	None	N	0	916.7	1	1	1	1	1	Servicea	Prima	☑	☐	☐	None	None	None	☐
Max. Temp	Maximum Operating Temperature - ADSS	C 40	W wire	0	0	None	N	0	916.7	1	1	1	1	1	Servicea	Prima	☑	☐	☐	None	None	None	☐
Blowout - T	Blowout	C 40	W wire	500	500	None	N	0	916.7	1	1	1	1	1	Servicea	Prima	☑	☐	☐	None	None	None	☐
Electrical C	Midspan Separation Clearance	C 50	W wire	0	0	None	N	0	916.7	1	1	1	1	1	Servicea	Prima	☑	☐	☐	None	None	None	☐
Electrical C	Subcircuit Separation Clearance	C 15	W wire	0	0	None	N	0	916.7	1	1	1	1	1	Servicea	Prima	☑	☐	☐	None	None	None	☐
Electrical C	Low Wind Separation Clearance	C 35	W wire	100	100	None	N	0	916.7	1	1	1	1	1	Servicea	Prima	☑	☐	☐	None	None	None	☐
Electrical C	High Wind Separation Clearance	C 35	W wire	500	500	None	N	0	916.7	1	1	1	1	1	Servicea	Prima	☑	☐	☐	None	None	None	☐
MAXOP	MAXOP	M max	W wire	0	0	None	N	0	916.7	1	1	1	1	1	Servicea	Prima	☑	☐	☐	None	None	None	☑

Add Environment Export to CSV Import from CSV Replace from CSV Paste to/fr