Southern California Edison
WSD-011 – WSD-011

DATA REQUEST SET C a l A d v o c a t e s - S C E - 2 0 2 1 W M P - 0 4

To: Cal Advocates
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Response Date: 2/22/2021

Question 005:
For the following structure:
 Support Structure ID: 1922561E (Light Weight Steel Pole, Lat/Long: 34.798240661621094, -118.74307250976562)
Provide inputs and outputs of the WRRM as follows:
a) A list of the inputs that are used for determining the Probability of Ignition (POI).
b) A list of the inputs that are used for determining the wildfire consequence.
c) The Probability of Ignition (POI) rating generated by the WRRM .
d) The wildfire consequence outputs generated by the WRRM for the same weather scenario used in 6(c).

Response to Question 005:
a) The inputs to SCE's POI models include the following:

Variable	Description
Latitude	Latitude
Longitude	Longitude
FLOC_HighFireArea	High Fire Area of FLOC
FLOC_JointPole	Joint Pole (Y/N)
FLOC_District	District
FLOC_JpRenterOnPole	Jp Renter on Pole (Y/N)
FLOC_SystemVoltageNumeric	FLOC Voltage
EQ_ConstructionType	Pole Construction Type
EQ_ManufacturerOfAsset	Manufacturer of Asset
EQ_ObjectTypeID	Equipment Object Type (ED_Pole, EZ_Pole, etc.)
EQ_SubType	Equipment Sub Type (DF-DOUGLAS FIR, etc.)
EQ_Compliance1	ISO Compliance (International Standardization Organization)
EQ_Compliance2	FSA Compliance
EQ_Compliance3	WECC Compliance (Western Electric Coordinating Council)
EQ_Compliance4	RLA Compliance
EQ_Compliance5	NON-ISO Compliance
EQ_Compliance6	NON-EDISON Compliance
EQ_Compliance7	GENERATION Compliance

Variable	Description
EQ_Compliance8	NERC Compliance (North American Electric Reliability Corporation)
EQ_Compliance9	Generation Tie Compliance
EQ_FireAuthorityJurisdiction	Fire Authority Jurisdiction (SRA, NON-SRA, LRA, FRA)
EQ_AddedFacilityFlag	Added Facility Flag (Y/N)
EQ_FuseHolderQuantity	Fuse Holder Count
EQ_LightningArrestorQuantity	Lightning Arrestor Count
EQ_PoleBase	Material at base of pole
EQ_PoleHeight	Height of Pole (ft)
EQ_Preservative	Preservative used to treat pole
M3D_SCE_ID_OWNER_TYPE_VAL	Owner(s) of Asset (Company, Joint, Foreign)
M3D_SCE_ID_TRN_POLE_TYPE_VAL	Pole Type (TSP/Pole, TSRP)
M3D_SCE_ID_FRAME_TYPE_VAL	Frame Type (H-Frame)
FLOC_Age	Age of FLOC
Ri_10m_max/Ri_10m_mean	See Table Below
ghi_max/ghi_mean	See Table Below
psfc_mean	See Table Below
rv2m_max/rv2m_mean	See Table Below
t2m_max/t2m_mean/t2m_std	See Table Below
temp_dewpoint_delta	See Table Below
tke_max/tke_mean	See Table Below
u10m_tr_max/u10m_tr_mean	See Table Below
ustar_max/ustar_mean	See Table Below
v10m_tr_max/v10m_tr_mean	See Table Below
rain_total	See Table Below
snow_total	See Table Below

Var Name	Length	Type	Mode	Description	Unit
DateTime	22	int	list	Date and Time	
psfc	22	float	list	Pressure at the Surface	Pa
t2m	22	float	list	Temperature at 2 m	K
td2m	22	float	list	Dewpoint Temperature at 2 m	degC
u10m_tr	22	float	list	u-Component of wind at 10 m (Earth)	m s-1
v10m_tr	22	float	list	v-Component of wind at 10 m (Earth)	m s-1
ghi	22	float	list	Shortwave Flux - Downward - at surface - instant	W m-2
rain	22	float	list	Hourly Grid Scale Precipitation	mm
snow	22	float	list	Accumulated Total Grid Scale Snow and Ice	mm
rv2m	22	float	list	Water Vapor Mixing Ratio at 2 m	kg kg-1
ustar	22	float	list	Friction Velocity (u*)	m s-1
tke	22	float	list	Turbulence Kinetic Energy	m2 s-2
znt	22	float	list	N/A	m
maxwspeed	22	float	list	maximum wind speed in the lowest 10 model levels	m s-1
Ri_10m	22	float	list	Gradient Richardson Number at 10 m	
lat	22	float	list	Latitude	degrees_north
lon	22	float	list	Longitude	degrees_east

b) List of input to the consequence models include: Surface Fuels; Canopy Fuels; Weather Data; Live/Dead Fuel Moisture Data; Building/Structure Data; Population Data; SCE Assets.

c) The POI for this structure is 0.00013524958.

d) The wildfire consequence for this structure is 3080.27856445312 (SCE is not clear with respect to the reference in the question to “6(c)”).