

# Electric Incident Investigation Preliminary Ignition Investigation Report

Electric Incident Investigation (EII) Number: N/A HAWC Incident Name: N/A PG&E Facility Ignition? Yes CPUC Reportable Ignition? Yes Date & Time of Incident: May 2, 2022 1631 hours Street Address: May 2, 2022 1631 hours Street Address: Nevada City County: Nevada Latitude/Longitude: Sierra High Fire Threat District (HFTD): Tier 3 Fire Index Area: 330 Fire Potential Index (FPI) Rating: R1 Was there a PSPS event at the time of ignition? Vegetation contact-PG&E contracted crew (2nd party) Circuit: Brunswick 1103 Circuit Protection Zone: Brunswick 1103173934 Nominal Voltage: 12kV PG&E Equipment associated with ignition: Primary conductor EPSS enabled at time of ignition? No EPSS enabled at time of ignition? No EPSS enabled at time of Ignition? No Wire Down (Primary)? Primary conductor broken and, on the ground Wire Down (Primary)? Primary conductor broken and, on the ground Wire Down (Primary)? Primary conductor broken and, on the ground Tree Crew fell tree through 1/O Aluminum Cable Steel Reinforced (ACSR) tree wire. Opened jumpers line side damaged, re-energized customers except one.  HAWC Summary: N/A Injuries / Fatalities / Property Damage / Media Attention: Vegetation and southwest with a gust of 8 MPH		
HAWC Incident Name:  PG&E Facility Ignition?  CPUC Reportable Ignition?  Date & Time of Incident:  May 2, 2022 1631 hours  Street Address:  City:  Nevada City  County:  Nevada Latitude/Longitude:  PG&E Division:  High Fire Threat District (HFTD):  Fire Index Area:  Fire Potential Index (FPI) Rating:  Was there a PSPS event at the time of ignition?  Failure Driver:  Failure Driver:  Failure Sub-driver:  Contact from object  Vegetation contact-PG&E contracted crew (2nd party)  Circuit:  Brunswick 1103  Circuit Protection Zone:  Brunswick 1103173934  Nominal Voltage:  PSE Equipment associated with ignition:  PFSS enabled at time of ignition?  Fault Type:  Line to ground  Wire Down (Primary)?  MAVF Score  TBD  Lead Agency/Agency Having Jurisdiction: Fire Size:  FAS Field Remarks:  Tree crew fell tree through 1/0 Aluminum Cable Steel Reinforced (ACSR) tree wire. Opened jumpers line side damaged, re-energized customers except one.  HAWC Summary:  N/A  Nipuries / Fatalities / Property Damage / Media Attention:  Weather Conditions:  Temperature 59.7 degrees, relative humidity 48 %, wind speed 1.8 MPH out of the south southwest with a gust of 8 MPH  No Red Flag Warning (HWW):  effect	Ignition Database Index:	531
PG&E Facility Ignition? PGPUC Reportable Ignition: PGPUC Reportable Ignition Ignitio	<b>Electric Incident Investigation (EII) Number:</b>	N/A
CPUC Reportable Ignition?  Date & Time of Incident:  Street Address:  City:  County:  Latitude/Longitude:  PG&E Division:  Sierra  High Fire Threat District (HFTD):  Fire Index Area:  Signition?  Failure Driver:  Contact from object  Failure Sub-driver:  Vegetation contact-PG&E contracted crew (2nd party)  Circuit:  Brunswick 1103  Circuit: Brunswick 1103  Circuit Protection Zone:  Brunswick 1103173934  Noninal Voltage:  PG&E Equipment associated with ignition:  PFSS enabled at time of ignition?  Failur Down (Primary)?  MAVP Score  Line to ground  Wire Down (Primary)?  MAVP Score  TBD  Lead Agency/Agency Having Jurisdiction:  Fire Size:  FAS Field Remarks:  Tree crew fell tree through 1/0 Aluminum Cable Steel Reinforced (ACSR) tree wire. Opened jumpers line side damaged, re-energized customers except one.  HAWC Summary:  Media Attention:  Weather Conditions:  Temperature 59.7 degrees, relative humidity 48 %, wind speed 1.8 MPH out of the south southwest with a gust of 8 MPH  No Red Flag Warning (RFW) / High Wind  Warning (HWW):  Primary on High Wind Warning in effect	HAWC Incident Name:	N/A
Date & Time of Incident:  Street Address:  City:  Nevada City  Nevada  Latitude/Longitude:  PG&E Division:  Sierra  High Fire Threat District (HFTD):  Fire Index Area:  Fire Potential Index (FPI) Rating:  Was there a PSPS event at the time of ignition?  Failure Driver:  Failure Sub-driver:  Contact from object  Failure Sub-driver:  Brunswick 1103  Circuit:  Brunswick 1103  Circuit Protection Zone:  Brunswick 1103  Frimary conductor  EPSS enabled at time of ignition?  Rault Type:  Line to ground  Wire Down (Primary)?  MAVF Score  Lead Agency/Agency Having Jurisdiction:  Fire Size:  Tree crew fell tree through 1/0 Aluminum Cable Steel Reinforced (ACSR) tree wire. Opened jumpers  line side damaged, re-energized customers except  one.  HAWC Summary:  Weather Conditions:  Temperature 59.7 degrees, relative humidity 48 %, wind speed 1.8 MPH out of the south southwest with a gust of 8 MPH  No Red Flag Warning (RFW) / High Wind  Warning (HWW):  Fires Cize:  Red Flag Warning or High Wind Warning in effect	PG&E Facility Ignition?	Yes
Street Address: City: County: Nevada Latitude/Longitude: PG&E Division: Sierra High Fire Threat District (HFTD): Fire Index Area: Fire Potential Index (FPI) Rating: Was there a PSPS event at the time of ignition? Failure Driver: Contact from object Failure Sub-driver: Vegetation contact-PG&E contracted crew (2nd party) Circuit: Brunswick 1103 Circuit: Brunswick 1103 Circuit Protection Zone: Brunswick 1103173934 Nominal Voltage: PG&E Equipment associated with ignition: PFSS enabled at time of ignition? Fault Type: Line to ground Wire Down (Primary)? Primary conductor broken and, on the ground MAVF Score Lead Agency/Agency Having Jurisdiction: Nevada County Consolidated Fire District Fire Size: Tree crew fell tree through 1/0 Aluminum Cable Steel Reinforced (ACSR) tree wire. Opened jumpers line side damaged, re-energized customers except one. HAWC Summary: Injuries / Fatalities / Property Damage / Media Attention: Weather Conditions: Temperature 59.7 degrees, relative humidity 48 %, wind speed 1.8 MPH out of the south southwest with a gust of 8 MPH No Red Flag Warning (RFW) / High Wind Warning (HWW):  eVery damage or High Wind Warning in effect	CPUC Reportable Ignition?	Yes
City: Nevada City County: Nevada Latitude/Longitude: PG&E Division: Sierra High Fire Threat District (HFTD): Tier 3 Fire Index Area: 330 Fire Potential Index (FPI) Rating: R1 Was there a PSPS event at the time of ignition? Failure Driver: Contact from object Failure Sub-driver: Vegetation contact-PG&E contracted crew (2nd party) Circuit: Brunswick 1103 Circuit Protection Zone: Brunswick 1103173934 Nominal Voltage: 12kV PG&E Equipment associated with ignition: Primary conductor EPSS enabled at time of ignition? No Fault Type: Line to ground Wire Down (Primary)? Primary conductor broken and, on the ground Wire Down (Primary)? Primary conductor broken and, on the ground MAVF Score TBD Lead Agency/Agency Having Jurisdiction: Nevada County Consolidated Fire District Fire Size: 10 feet X 12 feet FAS Field Remarks: Tree crew fell tree through 1/0 Aluminum Cable Steel Reinforced (ACSR) tree wire. Opened jumpers line side damaged, re-energized customers except one. HAWC Summary: No property damage or injuries reported. No known media coverage Weather Conditions: Temperature 59.7 degrees, relative humidity 48 %, wind speed 1.8 MPH out of the south southwest with a gust of 8 MPH Red Flag Warning (RFW) / High Wind Warning (HWW): effect	Date & Time of Incident:	May 2, 2022 1631 hours
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Latitude/Longitude: PG&E Division: Sierra High Fire Threat District (HFTD): Fire Index Area: 330 Fire Potential Index (FPI) Rating: R1 Was there a PSPS event at the time of ignition? Failure Driver: Contact from object Failure Sub-driver: Vegetation contact-PG&E contracted crew (2nd party) Circuit: Brunswick 1103 Circuit Protection Zone: Brunswick 1103 Circuit Protection Zone: Brunswick 1103 Circuit Protection Zone: PG&E Equipment associated with ignition: PFSS enabled at time of ignition? No Fault Type: Line to ground Wire Down (Primary)? Primary conductor broken and, on the ground MAVF Score Lead Agency/Agency Having Jurisdiction: Pire Size: Tree crew fell tree through 1/0 Aluminum Cable Steel Reinforced (ACSR) tree wire. Opened jumpers line side damaged, re-energized customers except one. HAWC Summary: N/A Injuries / Fatalities / Property Damage / Media Attention: Weather Conditions: Temperature 59.7 degrees, relative humidity 48 %, wind speed 1.8 MPH out of the south southwest with a gust of 8 MPH Red Flag Warning (RFW) / High Wind Warning (HWW):  Sierra Sierra Sierra No Tire 3 Sierra Si	City:	Nevada City
PG&E Division:  High Fire Threat District (HFTD):  Fire Index Area:  Sier Index Area:  Sier Potential Index (FPI) Rating:  Was there a PSPS event at the time of ignition?  Failure Driver:  Contact from object  Failure Sub-driver:  Vegetation contact-PG&E contracted crew (2nd party)  Circuit:  Brunswick 1103  Circuit Protection Zone:  Brunswick 1103173934  Nominal Voltage:  PG&E Equipment associated with ignition:  EPSS enabled at time of ignition?  Fault Type:  Line to ground  Wire Down (Primary)?  MAVF Score  Lead Agency/Agency Having Jurisdiction:  Fire Size:  FAS Field Remarks:  Tree crew fell tree through 1/0 Aluminum Cable Steel Reinforced (ACSR) tree wire. Opened jumpers line side damaged, re-energized customers except one.  HAWC Summary:  NyA  Injuries / Fatalities / Property Damage / Media Attention:  Weather Conditions:  Temperature 59.7 degrees, relative humidity 48 %, wind speed 1.8 MPH out of the south southwest with a gust of 8 MPH  Red Flag Warning (RFW) / High Wind  Warning (HWW):  Sierra  1320  No  Tier 330  R1  No  Tier 330  R1  No  Tier 330  R1  No  Tier 34  No  Tier ontact from object  Tomact From object  Temperature 59.7 degrees, relative humidity 48 %, wind speed 1.8 MPH out of the south southwest with a gust of 8 MPH  No Red Flag Warning or High Wind Warning in effect	County:	Nevada
High Fire Threat District (HFTD): Fire Index Area: 330 Fire Potential Index (FPI) Rating: Was there a PSPS event at the time of ignition? Failure Driver: Contact from object Failure Sub-driver: Vegetation contact-PG&E contracted crew (2nd party) Circuit: Brunswick 1103 Circuit Protection Zone: Brunswick 1103173934 Nominal Voltage: PG&E Equipment associated with ignition: Primary conductor EPSS enabled at time of ignition? No Fault Type: Line to ground Wire Down (Primary)? Primary conductor broken and, on the ground MAVF Score Lead Agency/Agency Having Jurisdiction: Fire Size: FAS Field Remarks: Tree crew fell tree through 1/0 Aluminum Cable Steel Reinforced (ACSR) tree wire. Opened jumpers line side damaged, re-energized customers except one. HAWC Summary: N/A Injuries / Fatalities / Property Damage / Media Attention: Weather Conditions: Temperature 59.7 degrees, relative humidity 48 %, wind speed 1.8 MPH out of the south southwest with a gust of 8 MPH Red Flag Warning (RFW) / High Wind Warning (HWW):  No Red Flag Warning or High Wind Warning in effect	Latitude/Longitude:	
Fire Index Area:  Fire Potential Index (FPI) Rating:  Was there a PSPS event at the time of ignition?  Failure Driver:  Failure Sub-driver:  Circuit:  Brunswick 1103  Circuit:  Brunswick 1103  Circuit Protection Zone:  Nominal Voltage:  PG&E Equipment associated with ignition:  PFSS enabled at time of ignition?  Fault Type:  Line to ground  Wire Down (Primary)?  Primary conductor broken and, on the ground  MAVF Score  Lead Agency/Agency Having Jurisdiction:  Fire Size:  FAS Field Remarks:  Tree crew fell tree through 1/0 Aluminum Cable Steel Reinforced (ACSR) tree wire. Opened jumpers line side damaged, re-energized customers except one.  HAWC Summary:  N/A  Injuries / Fatalities / Property Damage / Media Attention:  Weather Conditions:  Temperature 59.7 degrees, relative humidity 48 %, wind speed 1.8 MPH out of the south southwest with a gust of 8 MPH  Red Flag Warning (RFW) / High Wind  Warning (HWW):  Red Flag Warning or High Wind Warning in effect	PG&E Division:	Sierra
Fire Potential Index (FPI) Rating:  Was there a PSPS event at the time of ignition?  Failure Driver:  Contact from object  Vegetation contact-PG&E contracted crew (2nd party)  Circuit:  Brunswick 1103  Circuit Protection Zone:  Brunswick 1103173934  Nominal Voltage:  PG&E Equipment associated with ignition:  PFSS enabled at time of ignition?  Fault Type:  Line to ground  Wire Down (Primary)?  Primary conductor broken and, on the ground  MAVF Score  Lead Agency/Agency Having Jurisdiction:  FAS Field Remarks:  Tree crew fell tree through 1/0 Aluminum Cable Steel Reinforced (ACSR) tree wire. Opened jumpers line side damaged, re-energized customers except one.  HAWC Summary:  N/A  Injuries / Fatalities / Property Damage /  Media Attention:  Weather Conditions:  Temperature 59.7 degrees, relative humidity 48 %, wind speed 1.8 MPH out of the south southwest with a gust of 8 MPH  Red Flag Warning (RFW) / High Wind  Warning (HWW):  Red Flag Warning or High Wind Warning in effect	High Fire Threat District (HFTD):	Tier 3
Was there a PSPS event at the time of ignition? Failure Driver: Contact from object Vegetation contact-PG&E contracted crew (2nd party) Brunswick 1103 Circuit: Brunswick 1103 Circuit Protection Zone: Brunswick 1103173934 Nominal Voltage: 12kV PG&E Equipment associated with ignition: Primary conductor EPSS enabled at time of ignition? No Fault Type: Line to ground Wire Down (Primary)? Primary conductor broken and, on the ground MAVF Score Lead Agency/Agency Having Jurisdiction: PAS Field Remarks: Tree crew fell tree through 1/0 Aluminum Cable Steel Reinforced (ACSR) tree wire. Opened jumpers line side damaged, re-energized customers except one.  HAWC Summary: N/A No property damage or injuries reported. No known media coverage Weather Conditions: Temperature 59.7 degrees, relative humidity 48 %, wind speed 1.8 MPH out of the south southwest with a gust of 8 MPH Red Flag Warning (RFW) / High Wind Warning (HWW):  Contact from object Vegetation contact-PG&E contracted crew (2nd Party) Brunswick 1103 Primary Primary Primary conductor Primary con	Fire Index Area:	330
ignition? Failure Driver: Contact from object Vegetation contact-PG&E contracted crew (2nd party) Circuit: Brunswick 1103 Circuit Protection Zone: Brunswick 1103173934 Nominal Voltage: 12kV PG&E Equipment associated with ignition: PSS enabled at time of ignition? Fault Type: Line to ground Wire Down (Primary)? Primary conductor broken and, on the ground MAVF Score Lead Agency/Agency Having Jurisdiction: Pres Size: 10 feet X 12 feet FAS Field Remarks: Tree crew fell tree through 1/0 Aluminum Cable Steel Reinforced (ACSR) tree wire. Opened jumpers line side damaged, re-energized customers except one. N/A Injuries / Fatalities / Property Damage / Media Attention: Weather Conditions: Temperature 59.7 degrees, relative humidity 48 %, wind speed 1.8 MPH out of the south southwest with a gust of 8 MPH Red Flag Warning (RFW) / High Wind Warning (HWW):  Contact from object Vegetation contact-PG&E contracted crew (2nd Party) Primary Conductor P	Fire Potential Index (FPI) Rating:	R1
Failure Driver:  Failure Sub-driver:  Failure Sub-driver:  Vegetation contact-PG&E contracted crew (2nd party)  Circuit:  Brunswick 1103  Circuit Protection Zone:  Brunswick 1103173934  Nominal Voltage:  PG&E Equipment associated with ignition:  EPSS enabled at time of ignition?  Fault Type:  Line to ground  Wire Down (Primary)?  Primary conductor broken and, on the ground  MAVF Score  Lead Agency/Agency Having Jurisdiction:  Fire Size:  FAS Field Remarks:  Tree crew fell tree through 1/0 Aluminum Cable  Steel Reinforced (ACSR) tree wire. Opened jumpers line side damaged, re-energized customers except one.  HAWC Summary:  N/A  Injuries / Fatalities / Property Damage /  Media Attention:  Weather Conditions:  Temperature 59.7 degrees, relative humidity 48 %, wind speed 1.8 MPH out of the south southwest with a gust of 8 MPH  No Red Flag Warning (RFW) / High Wind  Warning (HWW):	Was there a PSPS event at the time of	No
Failure Sub-driver:  Vegetation contact-PG&E contracted crew (2nd party)  Circuit:  Brunswick 1103  Circuit Protection Zone:  Brunswick 1103173934  Nominal Voltage:  PG&E Equipment associated with ignition:  EPSS enabled at time of ignition?  Fault Type:  Line to ground  Wire Down (Primary)?  Primary conductor broken and, on the ground  MAVF Score  Lead Agency/Agency Having Jurisdiction:  Fire Size:  Tree crew fell tree through 1/0 Aluminum Cable  Steel Reinforced (ACSR) tree wire. Opened jumpers  line side damaged, re-energized customers except  one.  HAWC Summary:  N/A  Injuries / Fatalities / Property Damage /  Media Attention:  Weather Conditions:  Temperature 59.7 degrees, relative humidity 48 %,  wind speed 1.8 MPH out of the south southwest  with a gust of 8 MPH  No Red Flag Warning or High Wind Warning in  effect	ignition?	
Circuit:  Brunswick 1103  Circuit Protection Zone:  Brunswick 1103173934  Nominal Voltage:  PG&E Equipment associated with ignition:  EPSS enabled at time of ignition?  Fault Type:  Line to ground  Wire Down (Primary)?  Primary conductor broken and, on the ground  MAVF Score  Lead Agency/Agency Having Jurisdiction:  Fire Size:  10 feet X 12 feet  FAS Field Remarks:  Tree crew fell tree through 1/0 Aluminum Cable  Steel Reinforced (ACSR) tree wire. Opened jumpers line side damaged, re-energized customers except one.  HAWC Summary:  N/A  Injuries / Fatalities / Property Damage /  Media Attention:  Weather Conditions:  Temperature 59.7 degrees, relative humidity 48 %, wind speed 1.8 MPH out of the south southwest with a gust of 8 MPH  Red Flag Warning (RFW) / High Wind  Warning (HWW):  Brunswick 1103  Primary conductor  No  No  Frimary conductor broken and, on the ground  No  Frimary conductor  Frimary conductor  Frimary conductor  No  Nevada County Consolidated Fire District  Tee crew fell tree through 1/0 Aluminum Cable  Steel Reinforced (ACSR) tree wire. Opened jumpers line side damaged, re-energized customers except one.  N/A  No property damage or injuries reported. No  known media coverage  Temperature 59.7 degrees, relative humidity 48 %, wind speed 1.8 MPH out of the south southwest with a gust of 8 MPH  No Red Flag Warning or High Wind Warning in effect	Failure Driver:	Contact from object
Circuit:  Circuit Protection Zone:  Nominal Voltage:  PG&E Equipment associated with ignition:  Primary conductor  EPSS enabled at time of ignition?  No  Fault Type:  Line to ground  Wire Down (Primary)?  Primary conductor broken and, on the ground  MAVF Score  Lead Agency/Agency Having Jurisdiction:  Fire Size:  FAS Field Remarks:  Tree crew fell tree through 1/0 Aluminum Cable Steel Reinforced (ACSR) tree wire. Opened jumpers line side damaged, re-energized customers except one.  HAWC Summary:  N/A  Injuries / Fatalities / Property Damage / Media Attention:  Weather Conditions:  Temperature 59.7 degrees, relative humidity 48 %, wind speed 1.8 MPH out of the south southwest with a gust of 8 MPH  Red Flag Warning (RFW) / High Wind Warning (HWW):  By Circuit Protection Brunswick 1103173934  Brunswick 1103173934  No Frimary conductor  No Frimary conductor  Primary conductor  No Frimary conductor  No Frimary conductor  No Frimary conductor  No Fred Flag Warning or High Wind Warning in effect	Failure Sub-driver:	Vegetation contact-PG&E contracted crew (2 <sup>nd</sup>
Circuit Protection Zone:  Nominal Voltage:  PG&E Equipment associated with ignition:  Primary conductor  EPSS enabled at time of ignition?  No  Fault Type:  Line to ground  Wire Down (Primary)?  Primary conductor broken and, on the ground  MAVF Score  Lead Agency/Agency Having Jurisdiction:  Fire Size:  FAS Field Remarks:  Tree crew fell tree through 1/0 Aluminum Cable Steel Reinforced (ACSR) tree wire. Opened jumpers line side damaged, re-energized customers except one.  HAWC Summary:  N/A  Injuries / Fatalities / Property Damage /  Media Attention:  Weather Conditions:  Temperature 59.7 degrees, relative humidity 48 %, wind speed 1.8 MPH out of the south southwest with a gust of 8 MPH  Red Flag Warning (RFW) / High Wind  Warning (HWW):  Bining Score  Brunswick 1103173934  No  Primary conductor  No  Nevada County Consolidated Fire  District  Tree crew fell tree through 1/0 Aluminum Cable Steel Reinforced (ACSR) tree wire. Opened jumpers line side damaged, re-energized customers except one.  N/A  No property damage or injuries reported. No known media coverage  Temperature 59.7 degrees, relative humidity 48 %, wind speed 1.8 MPH out of the south southwest with a gust of 8 MPH  No Red Flag Warning or High Wind Warning in effect		party)
Nominal Voltage:  PG&E Equipment associated with ignition:  EPSS enabled at time of ignition?  Fault Type:  Line to ground  Wire Down (Primary)?  MAVF Score  Lead Agency/Agency Having Jurisdiction:  Fire Size:  FAS Field Remarks:  Tree crew fell tree through 1/0 Aluminum Cable Steel Reinforced (ACSR) tree wire. Opened jumpers line side damaged, re-energized customers except one.  HAWC Summary:  N/A  Injuries / Fatalities / Property Damage /  Media Attention:  Weather Conditions:  Temperature 59.7 degrees, relative humidity 48 %, wind speed 1.8 MPH out of the south southwest with a gust of 8 MPH  Red Flag Warning (RFW) / High Wind  Warning (HWW):  Primary conductor  No  No  Primary conductor  No  Nevada County Consolidated Fire District  Tree crew fell tree through 1/0 Aluminum Cable Steel Reinforced (ACSR) tree wire. Opened jumpers line side damaged, re-energized customers except one.  N/A  No property damage or injuries reported. No known media coverage  Temperature 59.7 degrees, relative humidity 48 %, wind speed 1.8 MPH out of the south southwest with a gust of 8 MPH  No Red Flag Warning or High Wind Warning in effect	Circuit:	Brunswick 1103
PG&E Equipment associated with ignition:  EPSS enabled at time of ignition?  Fault Type:  Wire Down (Primary)?  MAVF Score  Lead Agency/Agency Having Jurisdiction:  Fire Size:  10 feet X 12 feet  Tree crew fell tree through 1/0 Aluminum Cable Steel Reinforced (ACSR) tree wire. Opened jumpers line side damaged, re-energized customers except one.  HAWC Summary:  N/A  Injuries / Fatalities / Property Damage / Media Attention:  Weather Conditions:  Temperature 59.7 degrees, relative humidity 48 %, wind speed 1.8 MPH out of the south southwest with a gust of 8 MPH  Red Flag Warning (RFW) / High Wind Warning (HWW):  Primary conductor  No  No  No  Frimary conductor  No  No  Newada County Consolidated Fire District  Tree crew fell tree through 1/0 Aluminum Cable Steel Reinforced (ACSR) tree wire. Opened jumpers line side damaged, re-energized customers except one.  N/A  No property damage or injuries reported. No known media coverage  Temperature 59.7 degrees, relative humidity 48 %, wind speed 1.8 MPH out of the south southwest with a gust of 8 MPH  No Red Flag Warning or High Wind Warning in effect	<b>Circuit Protection Zone:</b>	Brunswick 1103173934
EPSS enabled at time of ignition? Fault Type:  Wire Down (Primary)?  MAVF Score  Lead Agency/Agency Having Jurisdiction: Fire Size:  FAS Field Remarks:  Tree crew fell tree through 1/0 Aluminum Cable Steel Reinforced (ACSR) tree wire. Opened jumpers line side damaged, re-energized customers except one.  HAWC Summary:  N/A  Injuries / Fatalities / Property Damage / Media Attention:  Weather Conditions:  Temperature 59.7 degrees, relative humidity 48 %, wind speed 1.8 MPH out of the south southwest with a gust of 8 MPH  Red Flag Warning (RFW) / High Wind  Warning (HWW):  No property damage or injuries reported. No human media coverage  Temperature 59.7 degrees, relative humidity 48 %, wind speed 1.8 MPH out of the south southwest with a gust of 8 MPH  No Red Flag Warning or High Wind Warning in effect	Nominal Voltage:	12kV
Fault Type:  Wire Down (Primary)?  Primary conductor broken and, on the ground  MAVF Score  Lead Agency/Agency Having Jurisdiction:  Fire Size:  FAS Field Remarks:  Tree crew fell tree through 1/0 Aluminum Cable Steel Reinforced (ACSR) tree wire. Opened jumpers line side damaged, re-energized customers except one.  HAWC Summary:  N/A  Injuries / Fatalities / Property Damage /  Media Attention:  Weather Conditions:  Temperature 59.7 degrees, relative humidity 48 %, wind speed 1.8 MPH out of the south southwest with a gust of 8 MPH  Red Flag Warning (RFW) / High Wind  Warning (HWW):  Line to ground  Primary conductor broken and, on the ground  TBD  Lead Agency/Agency Having TBD  Revada County Consolidated Fire District  The Crew fell tree through 1/0 Aluminum Cable Steel Reinforced (ACSR) tree wire. Opened jumpers line side damaged, re-energized customers except one.  N/A  No property damage or injuries reported. No known media coverage  Temperature 59.7 degrees, relative humidity 48 %, wind speed 1.8 MPH out of the south southwest with a gust of 8 MPH  No Red Flag Warning or High Wind Warning in effect	PG&E Equipment associated with ignition:	Primary conductor
MAVF Score Lead Agency/Agency Having Jurisdiction: Fire Size: FAS Field Remarks:  HAWC Summary: Injuries / Fatalities / Property Damage / Media Attention: Weather Conditions:  Red Flag Warning (RFW) / High Wind Warning (HWW):  Primary conductor broken and, on the ground TBD  Tender X 12  The County Consolidated Fire District  10 feet X 12 feet  Tree crew fell tree through 1/0 Aluminum Cable Steel Reinforced (ACSR) tree wire. Opened jumpers line side damaged, re-energized customers except one.  N/A  No property damage or injuries reported. No known media coverage  Temperature 59.7 degrees, relative humidity 48 %, wind speed 1.8 MPH out of the south southwest with a gust of 8 MPH  No Red Flag Warning or High Wind Warning in effect	EPSS enabled at time of ignition?	No
MAVF Score Lead Agency/Agency Having Jurisdiction:  Fire Size:  FAS Field Remarks:  Tree crew fell tree through 1/0 Aluminum Cable Steel Reinforced (ACSR) tree wire. Opened jumpers line side damaged, re-energized customers except one.  HAWC Summary:  Injuries / Fatalities / Property Damage / Media Attention:  Weather Conditions:  Temperature 59.7 degrees, relative humidity 48 %, wind speed 1.8 MPH out of the south southwest with a gust of 8 MPH  Red Flag Warning (RFW) / High Wind  Warning (HWW):  Temperature 59.7 High Wind Warning or High Wind Warning in effect	Fault Type:	Line to ground
Lead Agency/Agency Having Jurisdiction:  Fire Size:  FAS Field Remarks:  Tree crew fell tree through 1/0 Aluminum Cable Steel Reinforced (ACSR) tree wire. Opened jumpers line side damaged, re-energized customers except one.  HAWC Summary:  Injuries / Fatalities / Property Damage / Media Attention:  Weather Conditions:  Temperature 59.7 degrees, relative humidity 48 %, wind speed 1.8 MPH out of the south southwest with a gust of 8 MPH  Red Flag Warning (RFW) / High Wind  Warning (HWW):  Nevada County Consolidated Fire District  10 feet X 12 feet  Tree crew fell tree through 1/0 Aluminum Cable Steel Reinforced (ACSR) tree wire. Opened jumpers line side damaged, re-energized customers except one.  N/A  No property damage or injuries reported. No known media coverage  Temperature 59.7 degrees, relative humidity 48 %, wind speed 1.8 MPH out of the south southwest with a gust of 8 MPH  No Red Flag Warning or High Wind Warning in effect	Wire Down (Primary)?	Primary conductor broken and, on the ground
Fire Size:  FAS Field Remarks:  Tree crew fell tree through 1/0 Aluminum Cable Steel Reinforced (ACSR) tree wire. Opened jumpers line side damaged, re-energized customers except one.  HAWC Summary:  N/A  Injuries / Fatalities / Property Damage / Media Attention:  Weather Conditions:  Temperature 59.7 degrees, relative humidity 48 %, wind speed 1.8 MPH out of the south southwest with a gust of 8 MPH  Red Flag Warning (RFW) / High Wind  Warning (HWW):  10 feet X 12 feet  Tree crew fell tree through 1/0 Aluminum Cable Steel Reinforced (ACSR) tree wire. Opened jumpers line side damaged, re-energized customers except one.  N/A  No property damage or injuries reported. No known media coverage  Temperature 59.7 degrees, relative humidity 48 %, wind speed 1.8 MPH out of the south southwest with a gust of 8 MPH  No Red Flag Warning or High Wind Warning in effect	MAVF Score	TBD
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one.  HAWC Summary:  Injuries / Fatalities / Property Damage / Media Attention:  Weather Conditions:  Temperature 59.7 degrees, relative humidity 48 %, wind speed 1.8 MPH out of the south southwest with a gust of 8 MPH  Red Flag Warning (RFW) / High Wind  Warning (HWW):  No Red Flag Warning or High Wind Warning in effect		Steel Reinforced (ACSR) tree wire. Opened jumpers
HAWC Summary:  Injuries / Fatalities / Property Damage / Media Attention:  Weather Conditions:  Weather Conditions:  Temperature 59.7 degrees, relative humidity 48 %, wind speed 1.8 MPH out of the south southwest with a gust of 8 MPH  Red Flag Warning (RFW) / High Wind  Warning (HWW):  N/A  No property damage or injuries reported. No known media coverage  Temperature 59.7 degrees, relative humidity 48 %, wind speed 1.8 MPH out of the south southwest with a gust of 8 MPH  No Red Flag Warning or High Wind Warning in effect		line side damaged, re-energized customers except
Injuries / Fatalities / Property Damage / Media Attention:  Weather Conditions:  Temperature 59.7 degrees, relative humidity 48 %, wind speed 1.8 MPH out of the south southwest with a gust of 8 MPH  Red Flag Warning (RFW) / High Wind  Warning (HWW):  No Red Flag Warning or High Wind Warning in effect		one.
Media Attention:  Weather Conditions:  Temperature 59.7 degrees, relative humidity 48 %, wind speed 1.8 MPH out of the south southwest with a gust of 8 MPH  Red Flag Warning (RFW) / High Wind  Warning (HWW):  known media coverage  Temperature 59.7 degrees, relative humidity 48 %, wind speed 1.8 MPH out of the south southwest with a gust of 8 MPH  No Red Flag Warning or High Wind Warning in effect	HAWC Summary:	N/A
Weather Conditions:  Temperature 59.7 degrees, relative humidity 48 %, wind speed 1.8 MPH out of the south southwest with a gust of 8 MPH  Red Flag Warning (RFW) / High Wind  Warning (HWW):  No Red Flag Warning or High Wind Warning in effect	Injuries / Fatalities / Property Damage /	
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with a gust of 8 MPH  Red Flag Warning (RFW) / High Wind  Warning (HWW):  with a gust of 8 MPH  No Red Flag Warning or High Wind Warning in effect	Weather Conditions:	
Red Flag Warning (RFW) / High Wind  No Red Flag Warning or High Wind Warning in effect		·
Warning (HWW): effect		-
	Red Flag Warning (RFW) / High Wind	
911 Standby Relief Time: N/A		
	911 Standby Relief Time:	N/A

OIS #:	168666
ILIS #:	22-0057003
FAS #:	T005611919
Assigned Attorney:	N/A
EII Ignition Investigator & Phone:	

#### **Executive Summary**

On May 2, 2022 at 1631 hours, a PG&E troubleman was dispatched to the Brunswick 1103 12kV distribution circuit near Lake Vera Purdon Road in Nevada City in response to a report of a power outage, wires down and a small fire. The troubleman arrived on scene near pole SAP ID # 104007214 and noted that a PG&E contracted tree crew company (Evergreen Arborist Inc) fell a pine tree through an Aluminum Cable Steel Reinforced (ACSR) tree wire. The troubleman also noted that there was wire down on the ground east of fuse cut out (FUCO) # 7705 (see figures # 8 and # 9 below.)

The troubleman noted the cause location as a succession of the fault location as FUCO # 7705 near pole SAP ID # 104007214 and source side device # 4665.

The Nevada County Consolidated Fire District responded to and extinguished the approximate 10-foot X 12-foot fire.

According to PG&E Meteorology, the weather conditions at the time and location of the incident were: temperature 59.7 degrees, relative humidity 48 %, wind speed 1.8 MPH from the south-southwest, a wind gust of 8 MPH during R1 conditions.

This incident involved a 2<sup>nd</sup> party contact (a PG&E contracted) Enhanced Vegetation Management (EVM) crew, Evergreen Arborist. The subject tree was originally assigned a R3B\_Rmv 3-B prescription (meaning a large tree with a higher degree of difficulty in removal usually requiring roping and rigging, identified for removal due to its potential hazard to PG&E facilities) with the EVM team's PI comments stating "the tree is growing weird and has previously broken and is possibly rotten or cracked about 40 feet up the trunk. Remove to reduce the hazard."

The Evergreen Arborist tree crew (TC) foreman provided the following detailed description of the incident:

The tree crew was in the process of falling the pine tree for removal. The tree crew set up rigging on the subject tree to assist in the controlled, directional falling of the tree by tying a rope from the top of the subject tree to a redirect device on the second tree, then to a come- along at a third tree operated by the ground person. The TC foreman put in a conventional tree felling cut. The conventional cut may have had inadequate holding wood. Additionally, during the felling, the ground person noticed slack forming in the rope and tried to get the attention of the foreman using his Fox40 whistle but was unsuccessful. The poor-quality cut and slack in the rigging resulted in loss of control of the directional fell causing the tree to fall and as the tree fell, it struck the distribution lines. The energized lines came to the ground causing a vegetation fire approximately 10 X 12 feet in size (see figures # 2, # 3 and # 4 below.) The tree crew retreated to a safe location, notified the local fire department of the incident and the tree crew stood down for the remainder of the day.

The Vegetation Management (VM) team conducted a post-incident investigation and found that the subject tree was not in the tree database. It was however, identified for EVM program work and had been given the R3B\_Rmv 3-B prescription (a large tree identified for removal due to its potential hazard to PG&E facilities.) The VM team described the subject tree as an alive, healthy, 120 foot tall, Ponderosa Pine with a Diameter at Breast Height (DBH) of 35 inches however, the tree had been listed for abatement due to structural concerns. The date

last worked was May 2, 2022 (the date of the ignition incident) and the planned next inspection is December of 2022.

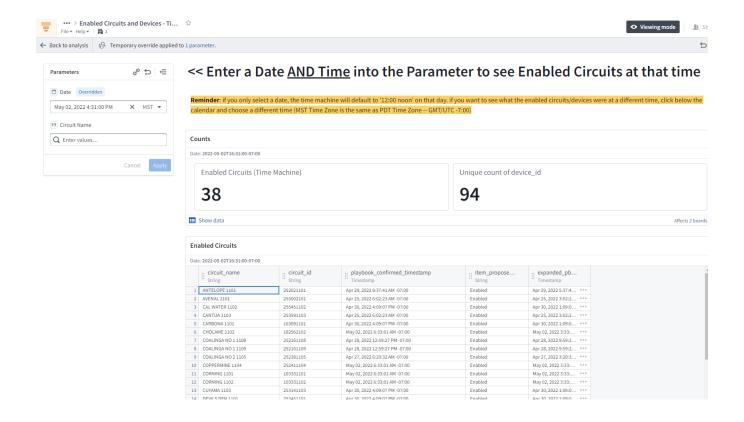
During the extent of condition (EOC) patrol, the VM team found no priority one or two trees requiring work prior to the next planned inspection. The EOC patrol did find five cedar trees and one additional pine tree that are dead or were damaged by the tree which caused the ignition. VM also found trees in the span which have poor taper and could be a hazard before the next routine patrol in late 2022. (See figure # 15 below showing trees listed under corrective action.)

Two priority "A" EC tags were created because of this incident. EC tag # 123480524 and tag # 123480521.

#### **EPSS Analysis**

The Brunswick 1103 circuit was not equipped with Enhanced Powerline Safety Settings (EPSS) at the time of this ignition incident. Therefore, EPSS settings were not a factor in this incident.

The table below from the Foundry Time Machine tool shows the circuits which were enabled with EPSS settings at the date and time of the ignition incident subject to this report. There were 38 circuits enabled with EPSS settings and the Brunswick 1103 was not included.



#### **Ignition Impact**

The ignition resulted in a fire approximately 10 X 12 feet in size in the Nevada City community in Nevada County. The ignition occurred when a PG&E EVM contracted tree crew inadvertently fell a pine tree into the primary conductor causing the energized lines to fall to the ground igniting the receptive fuel bed beneath the line. The outage affected 470 customers and the last customer's service was restored at 0335 hours on May 3, 2022. PG&E is not aware of any property damage, injuries or media coverage associated with this ignition incident.

## **Sequence of Events**

#### May 2, 2022

- 1630 hours: First No Light (FNL)
- 1631 hours: PG&E Troubleman dispatched to the Brunswick 1103 12 kV circuit
- 1644 hours: Line Recloser 50070 open
- 1647 hours: Outage start time in OIS
- 1652 hours: Troubleman reports wire down near fuse cut out 7705
- 1740 hours: Troubleman reports tree crew dropped a tree through the primary near Fuse cut out 7705
- 1842 hours: PG&E repair crew dispatched to the Brunswick 1103 circuit

#### May 3, 2022

- 0335 hours: Outage complete time in OIS
- 0545 hours: Repair crew clears the scene

# **Corrective Notification Associated with Ignition**

Two Electric Corrective (EC) tags were created because of this incident. Priority "A" EC tag # 123480524 associated with pole SAP ID # 104007214 to replace 2000 of overhead conductor. Repairs were completed on May 3, 2022. Priority "A" EC tag # 123480521 associated with pole SAP ID # 104007213 to replace the conductor due to it being burned and cut in multiple places. Repairs were completed on May 3, 2022.

#### **Pending Work**

Туре	Number	Description	Priority	Date Identified	<b>Due Date</b>
EC Notification	N/A				
COE Notification	N/A				
LC Notification	N/A				
Veg Work Order	N/A				

Please note this may not include pending major program or project work at the incident location.

# Asset Info & Most Recent Inspections and Tests

Info / Inspection	Most Recent Date	Findings
Install Date:	November 20, 2020	Pole SAP ID #104007213, Class 1, 45-foot wood pole
	November 20, 2020	Pole SAP ID # 104007214 Class 1 45-foot wood pole
Inspection:	June 4, 2021	Pole SAP ID # 104007213 No compelling or abnormal issues

	June 10, 2020	Pole SAP ID # 104007213 (Ancestor pole #10090132) No issues
	June 4, 2021 June 10, 2020	Pole SAP ID # 104007214 No compelling or abnormal issue Pole SAP ID # 104007214 (Ancestor pole # 103026419) no issues
Patrol:	February 23, 2018	
	December 13, 2017	
Corrective History:	N/A	
Aerial Inspection Records:	N/A	
VM Inspection:	N/A	Subject tree was not in the VM tree database
EVM Inspection:		PI Prescription-R3B_Rmv 3-B prescribed for removal to reduce hazard. Veg point was "in progress" at time of incident
Equipment Test:	N/A	
Pole Intrusive Test:	2010	Passed
WSIP Inspection:	June 4, 2021	No compelling or abnormal issues

<sup>\*</sup>Incident Location: near pole SAP ID #'s 104007213 and 104007214

# Hazard Barrier Analysis:

Hazard	Downed Tree					
Target	Fallen tree or porti	Fallen tree or portion of tree contacting PG&E assets				
Barrier	Objective	<b>Expected Performance</b>			Defect	
			Expected	Contribute to Incident		
Patrol & Inspection (P&I) Records	Identify any nonconformances with poles or lines.	Inspection or patrol would identify any issues with PG&E equipment.	Yes	No	No compelling issues noted in 2020, 2021 Inspection or 2018 patrol	
Inspection Program (WSIP)		Inspection would identify any issue with PG&E equipment.	Yes	No	No abnormal issues noted in June, 2021 WSIP inspection	
Catastrophic Event Memorandum (CEMA) Inspections	Identify dead or dying trees that could fall into primary or secondary PG&E facilities	Inspection would identify any dead or dying trees and mark them for removal.	Yes	No	Subject tree not in the CEMA database	

•	ldentify any trees that need work	Inspection would identify any vegetation that could cause a potential hazard.	N/A	No	Subject tree not in VM routine inspection
Powerline Safety Settings (EPSS)	De-energize sections of the distribution grid when a fault is experienced to make the line safe.	De-energize sections of the distribution grid until restored after visual inspection.	N/A	No	Brunswick 1103 circuit not equipped with EPSS settings
Management (EVM) Risk Inspection	for minimum clearance around	Trimming overhanging limbs & branches directly above & around the lines. Targeted removal of dead & dying trees as well as certain species that pose an increased potential risk of falling into power lines.		Yes	Veg point status was listed as "in progress" in EVM program was being removed to reduce the hazard

# Potential Next Steps / Associated CAP Items:

None

## **Extent of Condition:**

- 2021 Ignition Index # 903 involved a 2<sup>nd</sup> party contact (PG&E contracted tree crew KDF Forestry Inc.) Also involved a pine tree.
- 2022 Ignition Index # 133 involved 2<sup>nd</sup> party contact (PG&E contracted crew AERI company). Involved an oak tree.

# Single Line Diagram



# Photos and Diagrams of Events

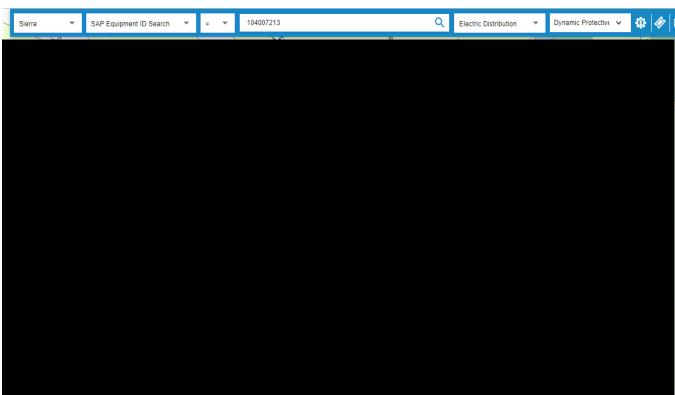


Figure 1 ED GIS Diagram of the Brunswick 1103 12 kV circuit with red arrow pointing to pole SAP ID # 104007213 and yellow arrow pointing to pole SAP ID # 104007214.



Figure 2 Photo taken by the responding troubleman showing approximate 10 X 12-foot fire.



Figure 3 Photo taken by responding troubleman showing burned spot and vegetative condition in the area.



Figure 4 Photo taken by responding troubleman showing close up of fire area.



Figure 5 Photo taken by VM team showing a portion of the 120-foot tall, 35 DBH, subject tree and lines above.



Figure 6 Photo taken by VM team showing stump of subject tree.



Figure 7 Photo taken by responding troubleman showing trees in the area in proximity to pole.



Figure 8 Photo taken by responding troubleman showing wire down.



Figure 9 Photo taken by responding troubleman showing subject tree remnants and wire down.



Figure 10 Photo taken by VM Team showing portions of pine tree.



Figure 11 Photo taken by responding troubleman showing subject tree.

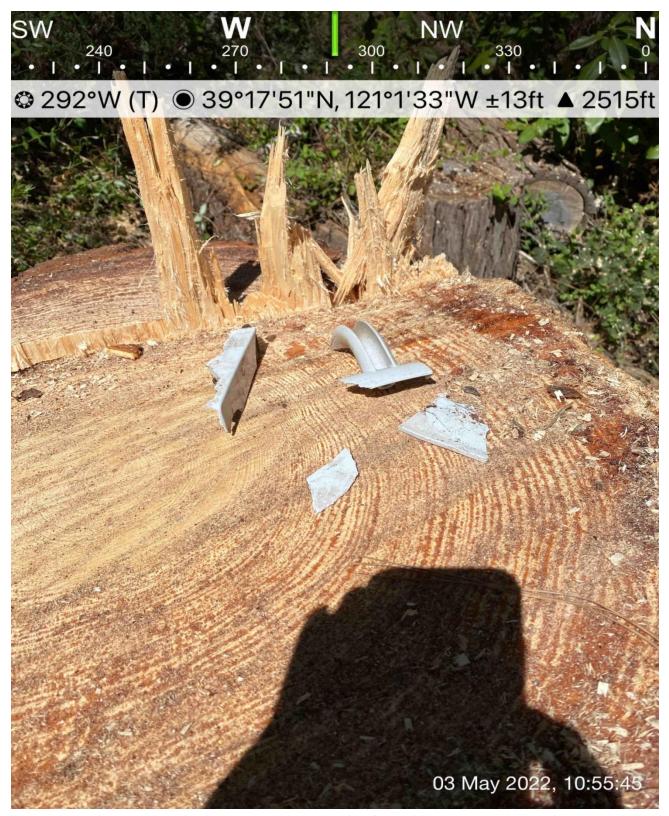


Figure 12 Photo taken by VM team showing broken chainsaw parts on the tree stump.

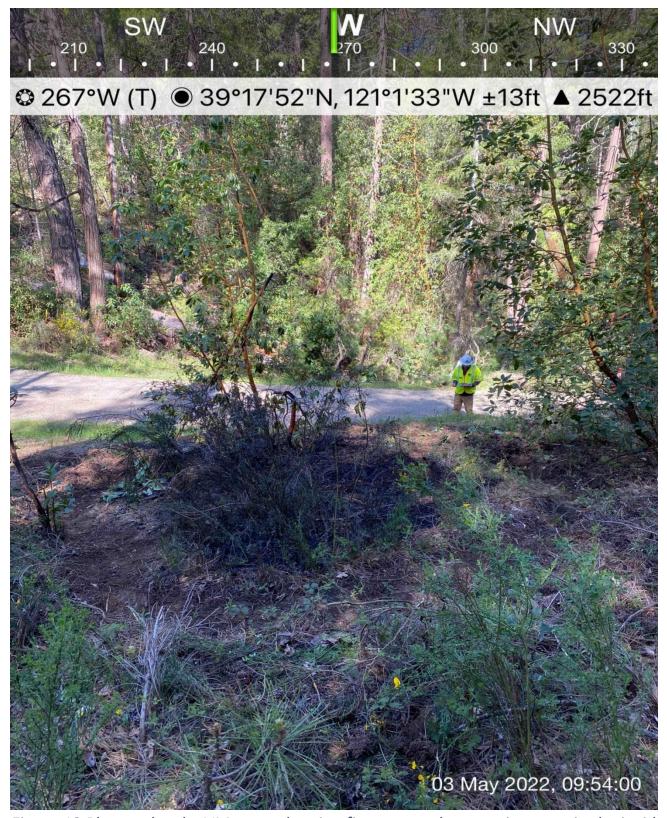


Figure 13 Photo taken by VM team showing fire area and vegetative state in the incident area.

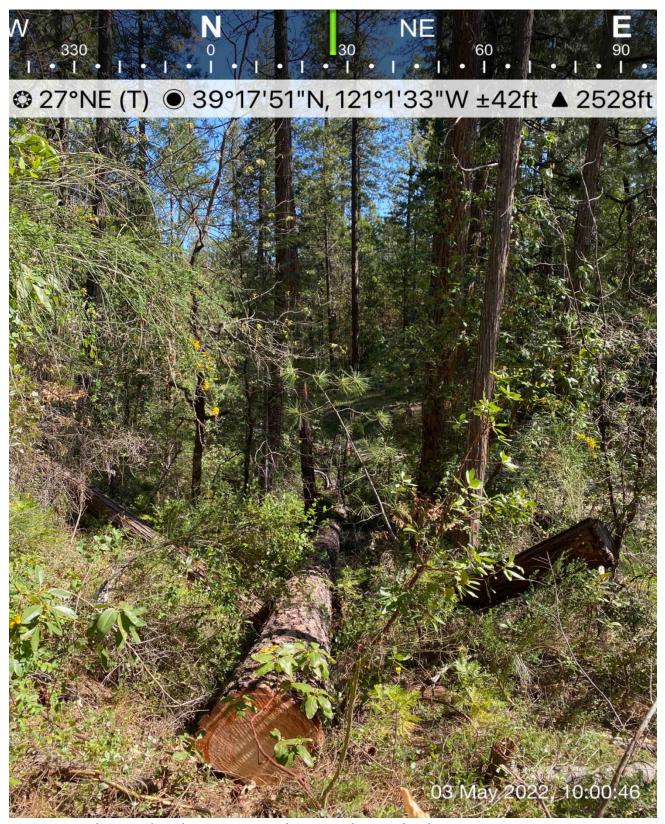


Figure 14 Photo taken by VM team showing downed subject tree.

Corrective Actio				
Tree	Priority and work prescription	Work Request, tree number	Forecast completion date	Actual completion date (when available)
CEDAR	.1SP LOL P#B1-B2, CLIMB DBH: 13 HGT 60			
CEDAR	.9SP LOL P#EP-B1, CLIMB DBH: 14 HGT 50			
CEDAR	.9SP LOL P#EP-B1, CLIMB DBH: 23 HGT 60			
CEDAR	.7SP LOL P#EP-B1, CLIMB DBH: 9 HGT 30			
CEDAR	.2SP LOL P#12-13, CLIMB DBH: 5 HGT 35			
PONDEROSA PINE	.2SP LOL P#12-13, CLIMB DBH: 5 HGT 35			

Figure 15 Chart from VM team's Extent of Condition patrol showing additional trees in fire area which were damaged or dead.

## **Attachments**

END	of REPORT

Attachments and references are located in the ESA folder, located below: