Pre-Incident Structure Evaluation

Abbreviation or Acronym: PISE

Data Exchange Name: Pre-Incident Structure Evaluation

Also Known As: N/A

Description: This layer includes information on the structure access, structure construction and defensible space with related attributes for documenting the property's characteristics.

Source Record: Wildland Urban Interface Operating Principles (CalFIRE), Bureau of Land Management, Florida Fire Service, Texas A&M Forest Service

Background: The need to evaluate structures to provide for the safety of responders during emergency incidents.

Abstract: This layer includes information on the structure access, structure construction and defensible space with related attributes for documenting the property's characteristics.

Purpose: The purpose of this data layer standard is to develop a minimum standard to expedite data aggregation during multiple jurisdiction incidents. This layer captures the evaluation of structures that may present a risk to Emergency Responders.

Data Model: PISA are depicted as a point feature class. This standard is for a point feature class (or shapefile). A geodatabase containing the PISA feature class is recommended.

Other Notes: The layer specific attributes and (domain) values were developed through a review of CalFire, BLM, Texas A&M FS, FFS standards and existing datasets to determine the types of features that would be stored in this feature class. Domains from those standards were revised and grouped to simplify this dataset.

Related Layers: None

Steward: NWCG Geospatial Subcommittee

Version: 1

NWCG Geospatial Data Standard Metadata Definitions and Values

Horizontal and/or Vertical Positional Accuracy: Standards for horizontal and vertical accuracies are detailed in Geospatial Positioning Accuracy Standards; Part 3: National Standard for Spatial Data Accuracy (NSSDA), http://www.fgdc.gov/standards/projects/FGDC-standards-projects/accuracy/part3/chapter3. Accuracy is reported by feature in meters at the 95% confidence level listed in the HAccuracy and/or VAccuracy fields. Accuracy reported at the 95% confidence level means that 95% of the positions in the feature will have an error with respect to true ground position that is equal to or smaller than the reported accuracy value.

Horizontal and/or Vertical Spatial Reference Information: 'Data layer projection parameters should be documented in a .prj file (shapefile format) or in a geodatabase projection definition. Or, specify the projection parameters via an EPSG code (example EPSG code 4326 = WGS84), http://www.epsg-registry.org . Projection parameters file should include applicable attributes as specified in the FGDC Standards Reference Model, 4.1.2.1.23.

Sensitivity Level: Undefined

Geospatial Data Layer Standard Attributes & Attribute Definitions

Standard Name*	Alternate Name	Required?	Data Type	Size/ Width	Description	Values	Related NWCG Standard
Jurisdictional Unit Identifier	UnitID; NWCG_UID; NFIRSUntID	Yes	String	10	Code used in interagency wildland fire to uniquely identify the governmental entity having overall land and resource management responsibility for a specific geographical area as provided by law. NWCG Unit Identifier should be used. In cases where NWCG Unit Identifier is not available, a National Fire Incident Reporting System (NFIRS) ID may be used instead.	NWCG (PMS 931: Unit Identifiers) - Example: CORMP NFIRS ID (FDID, State, Station) Example: 07434VA001	Unit Identifier
MapMethod	Map_Method; MapMeth	No	String	25	Controlled vocabulary to define how the geospatial feature was derived. Map method may help define data quality.	GPS-Driven; GPS-Walked; GPS-Walked/ Driven; GPS-Unknown Travel Method; Hand Sketch; Digitized-Image; Digitized-Topo; Digitized-Other; Image Interpretation; Infrared Image; Modeled; Mixed Methods; Remote Sensing Derived; Survey/GCDB/Cadastral;	

Standard Name*	Alternate Name	Required?	Data Type	Size/ Width	Description	Values	Related NWCG Standard
						Vector; Phone/Tablet; Other	
DateCurrent	DateCrnt; EditDate	Yes	Date		The last edit, update, of this GIS record. Date should follow the assigned NWCG Date Time data standard, using 24 hour clock, YYYY-MM-DDhh.mm.ssZ, ISO8601 Standard.	Example: 2014-06-23-15.30Z	Date Time (Assigned)
Comments	Notes; GIS_Note	No, but recommeNoded	String	255	Additional information describing the feature.	Free text	
GeometryID	Geometry_ID; GIS_ID; Spa_ID	Yes	String	50	Primary key for linking geospatial objects with other database systems. Required for every feature. This field may be renamed for each standard to fit the feature.	Globally Unique Identifier (GUID). **	
Structure Triage Category		Yes	String	50	Defensible, Non-Defensible	Defensible, Stand Alone; Defensible, Prep, Hold; Non-Defensible, Prep and Leave; Non-Defensible, Rescue, Drive By; Unknow	
FIRESCOPE Structure Triage Category		Yes	String	50	Threatened, Non-Threatened	Non Threatened; Threatened Defensible; Threatened Non-Defensible	
FIRESCOPE Tactics		Yes	String	50	Strategy and Tactics	Check and Go; Prep and Go; Prep and Defend; Bump and Run; Fire Front Following; Anchor	

Standard Name*	Alternate Name	Required?	Data Type	Size/ Width	Description	Values	Related NWCG Standard
						and Hold; Connect the Dots; Tactical Patrol	
APN Number	APN	Yes	String	20	Assessor's Parcel Number		
LongitudeDDM	LongDDM	Yes	String	20	Longitude in degrees, decimal minutes WGS84 for labeling purposes. Include correct symbols. Example, -112˚ 2.688'W. Value should be calculated in ArcGIS.		
LatitudeDDM	LatDDM	Yes	String	20	Latitude in degrees, decimal minutes WGS84 for labeling purposes. Include correct symbols. Example, 36˚ 12.818'N. Value should be calculated in ArcGIS.		
Address Number	Address	Yes	String	10	Address number of structure location		
Street Name	StrName	Yes	String	25	Street name of structure location		
Street Type	StrType	Yes	String	4	Street type of structure location such as Road, Lane, Circle etc…	Rd; Dr; La; Cir; Ct	
Street Direction	StrDir	No	String	3	Street name direction of structure location	N;NW;NE;S;SW;SE;	
Street Suffix	StrSuf	No	String	10	Street Suffix of structure location such as Apartment Number, Building Number etc..		
City	City	Yes	String	20	City where structure is located		
State	St	Yes	String	2	State where structure is located		

NWCG Geospatial Data Standard Metadata Definitions and Values

Standard Name*	Alternate Name	Required?	Data Type	Size/ Width	Description	Values	Related NWCG Standard
Zip Code	Zip	Yes	String	10	Zip code where structure is located		
County	Cty	Yes	String	20	county where stucture is located		
Is Address Visible	AddVis	Yes	String	3	Is the address visibile on the structure	Yes;No	
Community Name		No	String	20	Community name where structure is located. Ex: Oak Flats		
Administrative Unit	AdUn	Yes	String	25	Organization administering the evaluation		
Inspector First Name	InsFirstNam	No	String	50	First name of inspector completing the evaluation		
Inspector Last Name	InsLastNam	No	String	50	Last name of inspector completing the evaluation		
Inspector Postion	InsPos	No	String	50	Inspector postion on the incident		
Inspection Date	InsDat	Yes	Date	10	date when the inspection took place		
Inspection Number	InsNum	No	String	50	inspection number		
Primary onsite water source for firefighter		Yes	String	25	Structure's water storage	pool, water tank, hydrant, pond, stream (w/dry hydrant)	
Is water source seasonal		Yes	String	3		Yes;No	
Water Storage size		Yes	String	8		1500, 2000, 2500, 5000, none, >5000	
Is there a turnaround for an engine		Yes	String	25	Driveway access	Y/N Or could include engine type	

NWCG Geospatial Data Standard Metadata Definitions and Values

Standard Name*	Alternate Name	Required?	Data Type	Size/ Width	Description	Values	Related NWCG Standard
Ingress/Egress		Yes	String	25		2+ in/out; 1 in/out	
length of driveway		Yes	String	25	length of driveway	?????	
width of driveway		Yes	String	25	width of driveway	10', 10-22', >22'	
excessive vegeation along driveway		Yes	String	5		Yes or No	
Access gated		Yes	String	5		Yes or No	
Describe Access		Yes	String	50			
Safety Zone present		Yes	String	3		Yes or No	
Structure Type		Yes	String	50	Single Family residence, multi-family residence, mobile home, commercial, RV used as a residence, other		
Roof Construction		Yes	String	50	combustible;Fire resistant		
Exterior Siding		Yes	String	50	combustible;Fire resistant		
Eaves		Yes	String	50	Enclosed;UnEnclosed;Unknown;Not Present		
Skirting the Deck		Yes	String	50	Enclosed;UnEnclosed;Unknown;Not Present		
Deck/Porch		Yes	String	50	Composite;Wood;Masonary;No Deck		
Indoor Sprinker System		Yes	String	25	Yes;No:Unknown		
Window panes		Yes	String	50	multiple paned;single paned		
Proximily of propane tank to the house		Yes	String	25			

NWCG Geospatial Data Standard Metadata Definitions and Values

Standard Name*	Alternate Name	Required?	Data Type	Size/ Width	Description	Values	Related NWCG Standard
Vegetation type within 200 ft of structure		Yes	String	25	not applicable;grass;light trees; moderate;dense tree/shrubs		
Tree limbs near roof		Yes	String	25	Branches/limbs w/in 5 ft, Overhanging branches/limbs, NA		
Defensible space		Yes	String	25	>100'; 30'-100';<30'		
Debris on Roofs and Gutter		Yes	String	25	Y or N		
Combustible materials against house (10')		Yes	String	25	none, light flashy fuels, shrubs, trees, firewood, trash, multiple items above		
Propane tank near structure		Yes	String	25	na, >50', <50'		
Utility line w/in 50'		Yes	String	25	above ground, below ground		
Hazards		Yes	String	50			
Structure Comments		No	String	50			
Mitigation time in hours		No	String	25			
Mitigation description		No	String	50			
Protection Resources		No	String	50			
Electric to Structure?		Yes	String	25	Yes;No:Unknown		
Status		Yes	String	25	Not Threatened, Threatened Defensible, Threatened Non-Defensible		Status
Photo Number		No	String	20			

Standard Name*	Alternate Name	Required?	Data Type	Size/ Width	Description	Values	Related NWCG Standard
Additional buildings		No	String	10			
Dangerous Topography		Yes	String	10	Yes or No (examples- saddles, box canyon, chimneys)		
Slope		Yes	String	50	Flat ground, slope, ridge top saddle, chimney		
Fuel Type		Yes	String	50	grass, brush, timber		
CreateName		Yes	String	50	Name of person entering data		
CreateDate		Yes	date	10			
EditName		Yes	String	50	Name of person updating/editing data		

*Standard field names should be used for the core attributes when possible. Alternate field name suggestions are given to accommodate database conflicts and legacy datasets. Alternate name use should be documented in the Other Notes section above.

** GUIDs are unique specially formatted numeric strings generated by a “GUID generation tool.” GUIDs can be generated at http://www.guidgenerator.com/