

EXPLOSIVE SITE PLANNING

Providing expert site planning capabilities to customers world-wide using current criteria from the appropriate publications through formal approval.

Site Planning 101

Explosives site planning is critical to ensure the appropriate quantity-distance (QD) relationships are applied to protect people and property. Site planning can be applied across any agencies that store, handle, test, manufacture or otherwise have an explosives mission.

Site Development

Our team is equipped with the tools and expertise to assist in designing a site from the ground up or working with an existing layout to create the most efficient and effective layout to meet your needs.

Database Development

Explosives Safety Siting (ESS) software development and management is a full-time job competing with other daily tasks. Our team is equipped to transform your existing database into a useful tool, or we can assist in creating a database from raw data to streamline your explosives risks management processes.

Explosives Safety Site Plan (ESSP) Format

Our team is equipped and ready to build an ESSP package to meet your needs.

APT is dedicated to working with customers, finding solutions that work, while meeting standards.

General Site Planning

Standard Potential Explosion Site (PES) to Exposed Site (ES) relationships. Various layouts including munitions storage areas, ammunition supply points, flightlines, manufacturing, etc.

Risk-Based Siting

Utilized when minimum standards cannot be met. Authorized authority must accept remaining risk(s).

New Construction

When new construction is required to support area development. Applicable to PES or ES construction.

Change in Use

Applicable when facilities are no longer required for explosives operations or when explosives operations are introduced.

Intentional Burn/Detonation

Applicable to areas used for intentional burns or detonations. Also, may be applied to proficiency training areas or airshow demonstrations.

Outdated Site Plans

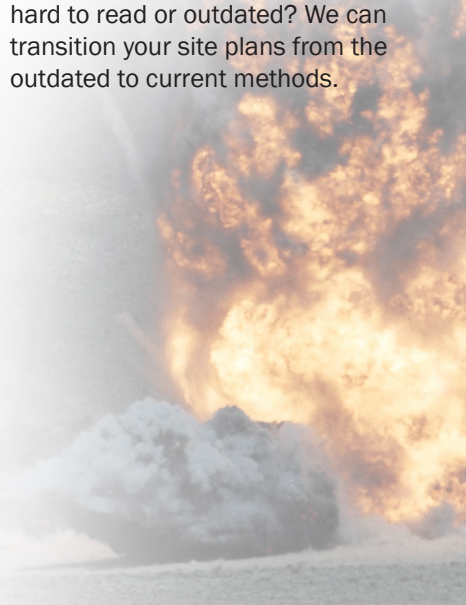
Do you have out-of-date site plans that require update? Are your maps hard to read or outdated? We can transition your site plans from the outdated to current methods.

Capabilities

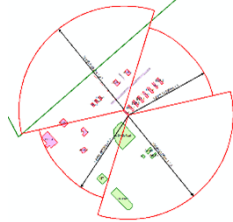
- General Site Planning Support
- Bare Base Site Plan Support
- Risk Based Site Plan Development
- QRA Assessments
- New Construction
- Facility Change in Use
- Areas used for Intentional Burns or Detonations
- Innovative Solutions
- Updates to Outdated Site Plans

Explosives Site Planning Customers

- Department of Defense (DoD)/ Department of War (DOW)
- Department of Energy (DoE)
- Defense Contracting Management Agency (DCMA)
- Commercial Explosives Industry
- Foreign Military Service (FMS)
- Alcohol, Tobacco, Firearms, & Explosives (ATF)
- National Aeronautics and Space Administration (NASA)



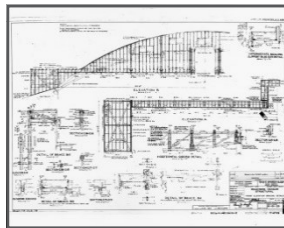
Explosives Safety Siting (ESS)



Explosives Site Planning



Site Plan Modernization



ESSP Format



XX Month 20XX

MEMORANDUM FOR Organization Name.

SUBJECT: Explosives Safety Site Plan (ESSP), for 13 EOLs and 7 AGMs

References: (a) Defense Explosives Safety Regulation (DES) 6055.09, Edition 1, Change 1, 23 Feb 24

(b) Department of Defense Manual, 4145.26, DoD Contractor's Safety Manual for Ammunition and Explosives, Incorporating Change 2, 31 August 2008

(c) National Fire Protection Association (NFPA) 780, Standard for the Installation of Lightning Protection Systems, 2023

(d) DDESB Technical Paper 15, Revision 4, Approved Protective Construction, 26 July 2020

1. The subject site plan has been reviewed with respect to the explosives safety requirements of references (a), (b), and (c). Based on the information furnished, final approval of this plan is recommended. This plan is supported by the criteria and references throughout and is designed to be implemented strategically across the entirety of this document.

2. Name of Organization, from herein referred to as ABC, Inc., is designing/constructing an explosives area in City, State. Reserved for site specific operations and limitations. They are:

FAC # & OWNER	FACILITY DESC	RQD IBD	RQD PTR	1.1 (xx)	1.1.1 MCE	1.2.2	1.2.3 MCE (xx)	1.3	1.4
PES-1 Base X	AGM 51.6 X 218.7 ft Above Ground Magazine YE-19-A1	1646 ft	985 ft	11000 lbs	500000 lbs 99 lbs	500000 lbs	500000 lbs 451 lbs (12)	180000 lbs	500000 lbs

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SECTION III - PES-EQ PAIRED RELATIONSHIPS WITH FACILITIES BEING SITED									
FAC # & OWNER	FACILITY DESC	ACT & RQD DIST	ORIEN-TATION	1.1 (xx)	1.1.1 MCE	1.2.2	1.2.3 MCE (xx)	1.3	1.4
ES-2 Base X	ABD	Actual: 778.19 ft Required: 0 ft	As ES	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft

Abandoned Change House:

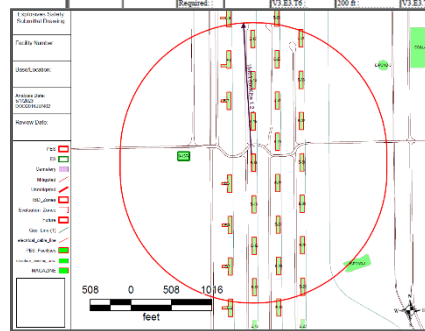
ES-3 Base X DM	AGM 51.6 X 218.7 ft Above Ground Magazine YE-19-A1	Actual: 1319.62 ft Required: 250 ft	As ES (internal)	245 ft V3 E3 T9 AGG-L AGM(TB)	200 ft V3 E3 T9 AGG-L AGM(TB)	100 ft V3 E3 T9 AGG-L AGM(TB)	84 ft V3 E3 T9 AGG-L AGM(TB)	250 ft V3 E3 T14 DMD L.I.M.D.: 3000	100 ft V3 E3 T15 AGG-L L.I.M.D.: 3000
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ES-4 Base X DM	AGM 51.6 X 218.7 ft Above Ground Magazine YE-19-A1	Actual: 820.03 ft Required: 250 ft	As ES (internal)	245 ft V3 E3 T9 AGG-L AGM(TB)	200 ft V3 E3 T9 AGG-L AGM(TB)	100 ft V3 E3 T9 AGG-L AGM(TB)	84 ft V3 E3 T9 AGG-L AGM(TB)	250 ft V3 E3 T14 DMD L.I.M.D.: 3000	100 ft V3 E3 T15 AGG-L L.I.M.D.: 3000
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File Number 20-0004 DDESB Approved 28 May 2020

ES-5 Base X DM	AGM 51.6 X 218.7 ft Above Ground Magazine YE-19-A1	Actual: 800.45 ft Required: 250 ft	As ES (internal)	245 ft V3 E3 T9 AGG-L AGM(TB)	200 ft V3 E3 T9 AGG-L AGM(TB)	100 ft V3 E3 T9 AGG-L AGM(TB)	84 ft V3 E3 T9 AGG-L AGM(TB)	250 ft V3 E3 T14 DMD L.I.M.D.: 3000	100 ft V3 E3 T15 AGG-L L.I.M.D.: 3000
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APT Point of Contact

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