



NFPA-855 COMPLIANCE GUIDE FOR TESLA MEGAPACK PRODUCTS



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Document Scope and Purpose

This document is for projects using Tesla Megapack (including Megapack, Megapack 2, and Megapack 2 XL) as a reference for the product's applicability to the National Fire Protection Association's NFPA 855 Standard (2023 Edition). This document does not provide the full text for each requirement and should be reviewed in parallel with a subscription-based, digital edition of the NFPA 855 Standard (not provided by Tesla).

This document describes the NFPA standard requirements only as far as they are applicable Megapack products. There may be additional or different requirements customers must follow as described in the applicable *Site Design Manual*.

Reference Documents

- *NFPA 855 Standard for the Installation of Stationary Energy Storage Systems (2023)*
It is available for reference in the following formats:
 - A digital edition. Select the linked subsection number in the table below to be directed to the corresponding NFPA link in the subscription-based, digital edition.
 - A free access version (www.nfpa.org/855)
 - A printed copy (This version may not include tentative interim amendments)
- *Megapack Site Design Manual* - https://partners.tesla.com/home/en-US/content/download/Megapack_Site_Design_Manual.pdf
- *Megapack 2 Design and Installation Manual* - https://partners.tesla.com/home/en-US/content/download/Megapack_2_Design_and_Installation_Manual.pdf
- *Megapack 2 XL Design and Installation Manual* - https://partners.tesla.com/home/en-US/content/download/Megapack_2_XL_Design_and_Installation_Manual.pdf
- *Industrial Lithium-Ion Battery Emergency Response Guide* - https://www.tesla.com/sites/default/files/downloads/Lithium-Ion_Battery_Emergency_Response_Guide_en.pdf

Common Acronyms Used in this Document

- FPE – Fire Protection Engineer
- AHJ – Authority Having Jurisdiction
- ESS – Energy Storage System

Tesla is committed to helping fire departments and first responders safely handle emergency situations involving all Tesla products. Contact your Tesla representative or Service Provider for additional information.

NOTE: This document has been updated to consider the Tentative Interim Amendment to NFPA 855 issued by the National Fire Protection Association on August 25, 2022, and with an effective date of September 14, 2023.



Chapter 4 – General.		
Subsection	Tesla comments	Provider
4.1 General. - Compliant as detailed in Chapter 4 and Chapter 9 below.		
4.2 Construction Documents.		
4.2.1 – General.		
<u>4.2.1.1</u>	Compliant. Project related documents to be provided by developer / EPC. Product specific items are Compliant as noted: (1) Project specific (2) N/A for Tesla ESS (3) Project specific (4) Product information available from Tesla (5) Product information available from Tesla (6) Project specific (7) Product information available in FPE report (8) Project specific	Developer/EPC Tesla can support
<u>4.2.1.2</u>	Project specific.	Owner/Operator
<u>4.2.1.3</u>	Compliant. Information for items 1-4 provided in FPE report (NDA required).	Tesla
<u>4.2.1.4</u>	Compliant. Modeling data available in FPE report (NDA required).	Tesla
4.2.2 – Building Owner. - Project specific		Scope of EPC
4.2.3 – Manuals. - Project specific		Scope of EPC
<u>4.2.3.1</u>	Project specific.	Scope of EPC Support from Tesla
<u>4.2.3.2</u>	Project specific.	Scope of EPC Support from Tesla
4.2.4 – Commissioning Plan. - See Chapter 6.		Scope of EPC Support from Tesla
4.3 Emergency Planning and Training.		
4.3.1 – General. - Project specific Required for Megapack and greater than one Powerpack installation.		Owner/Owner's authorized agent See Tesla ERG for more details. www.tesla.com/fIRSTresponders



Chapter 4 – General.		
Subsection	Tesla comments	Provider
		Tesla can support
4.3.2 – Facility Staff Planning and Training. - Site specific		Owner/Operator
4.3.2.1 - Emergency Operations Plan.		
<u>4.3.2.1.1</u>	Site specific.	Owner/Operator
<u>4.3.2.1.2</u>	Site specific.	Owner/Operator
<u>4.3.2.1.3</u>	Site specific.	Owner/Operator
<u>4.3.2.1.4</u>	Site specific.	Owner/Operator See Tesla ERG for more details. www.tesla.com/firestresonders Tesla can support
<u>4.3.2.1.5</u>	Site specific.	
4.3.2.2 – Facility Staff Training.		
<u>4.3.2.2.1</u>	Site specific.	Owner/Operator
<u>4.3.2.2.2</u>	Site specific.	Owner/Operator
4.4 Hazard Mitigation Analysis (HMA).		
<u>4.4.1</u>	HMA to be provided based on the following: (1) N/A Lithium-ion technology (2) To be determined (3) Per 9.4.1.2 for outside storage – HMA required for Megapack installation or greater than one PP installed. (4) AHJ judgement (5) N/A for Megapack. Required for Powerpack 2 installations (per UL9540) (6) Required for Megapack as exceeds 600 kWh (2,160 MJ)	Scope of EPC Tesla can support Generic HMA available under NDA for Megapack and Megapack 2 XL.
4.4.2 – Failure Modes.		
<u>4.4.2.1</u>	Compliant as noted: (1) Tesla compliant (2) Tesla compliant - Tesla battery management systems are certified to UL1998 and IEC60730 Annex H (3) N/A for Lithium- ion technology, outdoor, non-walk-in enclosure	Scope of EPC Tesla support. Generic HMA available under NDA for Megapack 2 and Megapack 2 XL.



Chapter 4 – General.		
Subsection	Tesla comments	Provider
<u>4.4.2.2</u>	Compliant available in HMA.	Scope of EPC Tesla support. Generic HMA available under NDA for Megapack 2 and Megapack 2 XL.
<u>4.4.3</u>	(1) N/A – outside installation (2) Compliant – outside installation (3) Compliant – see Tesla FPE report for additional information	Scope of EPC Tesla support. Generic HMA available under NDA for Megapack 2 and Megapack 2 XL.
<u>4.4.4</u>	Compliant – HMA available.	Scope of EPC Tesla support. Generic HMA available under NDA for Megapack2 and Megapack 2 XL.
<u>4.4.5</u>	Project specific.	Scope of EPC
4.5 Combustible Storage.		
<u>4.5.1</u>	N/A – Tesla not a walk-in enclosure.	Owner/Operator
<u>4.5.2</u>	Site specific.	Owner/Operator
<u>4.5.3</u>	N/A – Tesla outside only.	
<u>4.5.4</u>	N/A – Tesla outside only.	
<u>4.5.5</u>	N/A for Megapack and Powerpack.	
4.6 Equipment.		
<u>4.6.1 – Listings.</u> Compliant. All Tesla industrial energy products are listed in accordance with UL9540.		Tesla
<u>4.6.2 – Repairs.</u>		
<u>4.6.2.1</u>	Compliant. All repairs are performed by Tesla certified staff.	
<u>4.6.2.2</u>	Site specific.	Owner/Operator
<u>4.6.2.3</u>	N/A.	



Chapter 4 – General.		
Subsection	Tesla comments	Provider
4.6.3 – Retrofits.		
<u>4.6.3.1</u>	Compliant. All retrofits are listed in accordance with UL1973.	Tesla
<u>4.6.3.2</u>	N/A for Lithium-ion.	
<u>4.6.3.3</u>	N/A Megapacks are not retrofitted with other technologies or chemistries.	
4.6.4 – Replacements.		
<u>4.6.4.1</u>	Compliant. Replacements are considered new energy storage systems and need to comply with the corresponding requirements.	
<u>4.6.4.2</u>	Compliant. Site specific.	
4.6.5 – Reused Equipment - N/A		
4.6.6 – Increase in Power Rating or Maximum Stored Energy.		
<u>4.6.6.1</u>	Compliant. A complete energy storage unit that is added to an existing system needs to be compliant with the requirements for new systems. An existing energy storage unit that is expanded needs to be compliant with the requirements for retrofits.	Scope of EPC Tesla can support
<u>4.6.6.2</u>	Compliant for added units.	
<u>4.6.6.3</u>	Site specific.	
4.6.7 – Environment.		
N/A - All Tesla industrial energy products have IP66/NEMA 3R rating.		
4.6.8 – Charge Controllers.		
<u>4.6.8.1</u>	Compliant. Products certified to UL1741.	
<u>4.6.8.2</u>	Compliant. Products certified to UL1741.	
4.6.9 – Inverters and Converters.		
<u>4.6.9.1</u>	Compliant. Products certified to UL1741.	
<u>4.6.9.2</u>	Site specific.	
4.6.10 - Energy Storage Management System (ESMS)		
Compliant – Products certified to UL9540.		
4.6.11 - ESS Toxic and Highly Toxic		
No release of toxic gas during normal operation Compliant. All Tesla industrial energy products contain hermetically sealed cells that do not release gas during normal operation.		
4.6.12 – Enclosures.		



Chapter 4 – General.		
Subsection	Tesla comments	Provider
<u>4.6.12.1</u>	Compliant. All Tesla industrial energy products have IP66/NEMA 3R rated enclosures.	
<u>4.6.12.2</u>	Compliant. All Tesla industrial energy products have IP66/NEMA 3R rated enclosures.	
4.7 Installations.		
4.7.1 - Electrical Installation. The electrical installation has to be compliant with NFPA 70, IEEE C2, or equivalent local code. All Tesla industrial energy products are designed to be compliant. Scope of EPC to comply on a project level.		Scope of EPC
<u>4.7.1.1</u>	N/A for Lithium – Ion.	
<u>4.7.1.2</u>	N/A for Lithium – Ion.	
4.7.2 - Seismic Protection. Seismic protection has to be compliant with the local building code. Scope of EPC to comply on a project level.		Scope of EPC
4.7.3 – Design Loads. Scope of EPC to comply on a project level.		Scope of EPC
4.7.4 - Signage.		
<u>4.7.4.1</u>	Scope of EPC to comply on a project level.	Scope of EPC
<u>4.7.4.2</u>	Scope of EPC to comply on a project level.	Scope of EPC
<u>4.7.4.3</u>	Scope of EPC to comply on a project level.	Scope of EPC
<u>4.7.4.3.1</u>	Scope of EPC to comply on a project level.	Scope of EPC
<u>4.7.4.3.2</u>	N/A for Lithium – Ion.	
<u>4.7.4.4</u>	Scope of EPC to comply on a project level.	Scope of EPC
<u>4.7.4.5</u>	Scope of EPC to comply on a project level.	Scope of EPC
<u>4.7.4.6</u>	N/A – Tesla not in an occupied work center.	
4.7.5 – Impact Protection.		
<u>4.7.5.1</u>	The energy storage system shall be protected with guard posts (or other approved fence) when subject to impact by motor vehicles. Scope of EPC to comply on a project level.	Scope of EPC
<u>4.7.5.2</u>	Scope of EPC to comply on a project level.	Scope of EPC
<u>4.7.5.3</u>	Scope of EPC to comply on a project level.	Scope of EPC
<u>4.7.5.4</u>	N/A - Applies to residential only.	



Chapter 4 – General.		
Subsection	Tesla comments	Provider
4.7.6 – Security of Installations.		
<u>4.7.6.1</u>	The energy storage system location shall be secured against unauthorized entry. All Tesla industrial energy products are secured against unauthorized tampering with locks. Scope of EPC to comply on a project level.	Scope of EPC
<u>4.7.6.2</u>	Scope of EPC to comply on a project level.	Scope of EPC
4.7.7 – Elevation.		
N/A for energy storage systems located on the ground floor or within reachable elevations for external fire department laddering.		
4.7.7.1 – Below grade Installations.		
<u>4.7.7.1.1</u>	N/A – Tesla installation outdoor only not below grade.	
<u>4.7.7.2</u>	N/A – No rooftop installation at this time.	
<u>4.7.7.3</u>	N/A for Lithium – Ion.	
4.7.8 – Means of Egress.		
<u>4.7.8.1</u>	Means of egress shall be compliant with the local building code. Scope of EPC to comply on a project level.	Scope of EPC
<u>4.7.8.2</u>	Means of egress shall be compliant with the local building code. Scope of EPC to comply on a project level.	
<u>4.7.8.3</u>	Scope of EPC to comply on a project level.	Scope of EPC
<u>4.7.8.4</u>	Scope of EPC to comply on a project level.	Scope of EPC
4.7.9 – Open Rack Installations.		
N/A - Tesla is outdoor installation only, non-walk-in enclosure.		
4.7.10 – Fire Command Centers.		
N/A for outdoor located energy storage systems. For indoor locations, it is to be determined on a project-specific basis.		
4.7.11 – Access Roads.		
Access roads for the fire department shall be provided in accordance with the local fire code. Scope of EPC to comply on a project level.		Scope of EPC per local fire code
4.7.12 - Hazardous (Classified) Locations.		
Site specific.		Scope of EPC
4.7.13 – Fire Barriers.		
N/A - Tesla is outdoor installation, non-walk-in enclosure.		
4.8 Smoke and Fire Detection.		



Chapter 4 – General.		
Subsection	Tesla comments	Provider
<u>4.8.1</u>	Scope of EPC to provide smoke detection or radiant energy-sensing system for external notification.	Scope of EPC
<u>4.8.1.1</u>	N/A for Lithium Ion.	
<u>4.8.1.2</u>	N/A for Lithium Ion.	
<u>4.8.2 - Annunciation.</u>		
<u>4.8.2.1</u>	Site specific.	AHJ
<u>4.8.2.2</u>	Site specific.	AHJ
<u>4.8.3</u>	Site specific.	
<u>4.8.4</u>	Site specific.	
4.9 Fire Control and Suppression.		
<u>4.9.1</u>	N/A for outdoor located energy storage systems with non-walk-in enclosures.	
<u>4.9.1.1</u>	N/A for Lithium-ion.	
<u>4.9.1.2</u>	N/A for Lithium-ion.	
<u>4.9.1.3</u>	N/A for Lithium-ion.	
<u>4.9.1.4</u>	N/A – Not currently installed in parking garages.	
<u>4.9.1.5</u>	N/A – Not in dedicated use buildings.	
<u>4.9.1.6</u>	N/A – Not a walk-in enclosure.	
<u>4.9.2 – Sprinkler System.</u>		
N/A – Not required for outdoor, non-walk-in units.		
<u>4.9.2.1</u>	N/A – Not required for outdoor, non-walk-in units.	
<u>4.9.2.2</u>	N/A – Not required for outdoor, non-walk-in units.	
4.9.3 – Alternate Automatic Fire Control and Suppression Systems.		
<u>4.9.3.1</u>	N/A – Additional fire control/suppression not required.	
<u>4.9.3.2</u>	N/A – Additional fire control/suppression not required.	
4.9.4 – Water Supply.		
<u>4.9.4.1</u>	Scope of EPC to comply on a project level.	Scope of EPC
<u>4.9.4.2</u>	Scope of EPC to comply on a project level – either permanent supply or per NFPA 1142. See Megapack application note for guidance on water supply sizing.	Scope of EPC Tesla can support



Chapter 4 – General.		
Subsection	Tesla comments	Provider
<u>4.9.4.3</u>	Scope of EPC.	Scope of EPC
<u>4.9.4.4</u>	Scope of EPC.	Scope of EPC
4.10 Mobile ESS Equipment and Operations.		
N/A – Not mobile.		



Chapter 5 – System Interconnections.		
Subsection	Tesla Comments	Provider
<u>5.1</u> General.		
	All electrical connections and wiring shall be in accordance with NFPA 70, IEEE C2 or local equivalent code. All Tesla industrial energy products are compliant.	Scope of EPC
<u>5.2</u> Disconnecting Means.		
	Accessible disconnecting means for the ESS. In accordance with NFPA 70 or local equivalent code. All Tesla industrial energy products are compliant.	Scope of EPC
<u>5.2.1</u>	N/A for Lithium-ion.	
<u>5.2.2</u>	N/A for Lithium-ion.	
<u>5.3</u> Nonelectrical Systems.		
	N/A for Section 5.3	
<u>5.4</u> Support Systems.		
	All connections to and from the ESS National recognized standards and manufacturer’s instructions. All Tesla industrial energy products are compliant.	Scope of EPC



Chapter 6 – Commissioning		
Subsection	Tesla Comments	Provider
6.1 System Commissioning.		
6.1.1	Compliant. Commissioning realization and testing of all Tesla industrial energy products performed by Tesla. Required commissioning plan and report are provided. Commissioning of external systems is scope of EPC.	System Owner or their designated agent.
6.1.1.1	N/A for Lithium-ion.	
6.1.1.2	N/A for Lithium-ion.	
6.1.2		Scope of EPC
6.1.3 – Commissioning Plan.		
6.1.3.1	Scope of EPC.	System installer or commissioning agent
6.1.3.2	Need to fill out – Tesla to support	Tesla support
6.1.4 – Commissioning Test.		
6.1.4.1	Scope of EPC.	System installer
6.1.4.2	Scope of EPC.	Scope of EPC
6.1.5 – Commissioning Report.		
6.1.5.1	Scope of EPC.	System installer or commissioning agent
6.1.5.2	Scope of EPC.	Scope of EPC
6.1.5.2.1	Scope of EPC.	Scope of EPC
6.1.5.2.2	Scope of EPC.	Scope of EPC
6.1.5.2.3	Scope of EPC.	Scope of EPC
6.1.5.3 – Corrective Action Plan.		
6.1.5.3.1	Scope of EPC.	Scope of EPC
6.1.5.3.2	Scope of EPC.	Scope of EPC
6.1.5.4	Scope of EPC.	Scope of EPC
6.2 Issues and Resolutions Documentation. (Reserved)		
6.3 Operations and Maintenance Documentation.		
6.3.1	Compliant. All Tesla industrial energy product documentation is provided.	EPC Tesla support



Chapter 6 – Commissioning		
Subsection	Tesla Comments	Provider
	Project-related documentation is scope of EPC.	
<u>6.3.2</u>	Scope of EPC.	EPC Tesla support
<u>6.3.3</u>	Scope of EPC.	EPC/Owner
<u>6.4</u> Recommissioning of Existing Systems.		
<u>6.4.1</u>	To be compliant with Section 6.1.	EPC/Owner
<u>6.4.2</u>	To be compliant with Section 6.1.	EPC/Owner
<u>6.4.3</u>	Scope of EPC/Owner.	EPC/Owner
<u>6.4.4</u>	Scope of EPC/Owner.	EPC/Owner



Chapter 7 – Operation and Maintenance		
Subsection	Tesla Comments	Provider
<u>7.1</u> System Operation.		
7.1.1 – Electrical Utilities Under NERC Jurisdiction. Owner - N/A		
<u>7.1.1.1</u>	Scope of EPC/Owner.	
<u>7.1.1.2</u>	N/A for Lithium-ion.	
<u>7.1.2</u>	Compliant: (1) Owner’s manual (2) Owner’s manual (3) Owner’s manual (4) Owner’s manual and Tesla ERG (5) Scope of Owner	
7.1.3 – SDS for Hazardous Materials.		
<u>7.1.3.1</u>	Compliant. SDS available for R134a refrigerant contained within industrial energy products.	
<u>7.1.3.2</u>	Scope of Owner.	
<u>7.1.4</u>	Scope of Owner.	System owner or their designated agent
<u>7.1.5</u>	Scope of Owner.	
<u>7.1.5.1</u>	Scope of Owner.	
<u>7.1.5.2</u>	Scope of Owner.	
<u>7.2</u> System Maintenance.		
<u>7.2.1</u>	Compliant. Maintenance documentation is provided for all industrial energy products. All maintenance is performed by Tesla certified personnel.	
<u>7.2.2</u>	Compliant. All maintenance is performed by Tesla certified personnel.	
<u>7.2.3</u>	Compliant. All maintenance is performed by Tesla certified personnel.	
<u>7.2.4</u>	Compliant. All maintenance is performed by Tesla certified personnel.	
<u>7.2.5</u> – Training.		



Chapter 7 – Operation and Maintenance		
Subsection	Tesla Comments	Provider
<u>7.2.5.1</u>	Owner.	System Owner or their designated agent(s)
<u>7.2.5.2</u>	Owner.	
<u>7.2.5.3</u>	Owner.	
7.3 System Testing.		
<u>7.3.1</u>	Scope of EPC with support from Tesla.	Tesla can support
<u>7.3.2</u>	Scope of EPC/Owner.	
<u>7.3.2.1</u>		



Chapter 8 – Decommissioning		
Subsection	Tesla Comments	Provider
8.1 Decommissioning Plan.		
Documentation from Tesla to be provided if needed.		
<u>8.1.1</u>	N/A for Lithium-ion.	Owner of an ESS or their designated agent(s)
<u>8.1.2</u>	N/A for Lithium-ion.	
<u>8.1.3</u>	Scope of Owner.	Owner
8.2 Decommissioning Process.		
<u>8.2.1</u>	Scope of Owner.	
<u>8.2.2</u>		
<u>8.3 Decommissioning Report.</u>		
<u>8.3.1</u>	Scope of Owner.	ESS Owner or their designated agent(s)
<u>8.3.2</u>	Scope of Owner.	Owner
<u>8.3.3</u>	Scope of Owner.	Owner



Chapter 9 – Electrochemical Energy Storage Systems		
Subsection	Tesla Comments	Provider
9.1 General.		
9.1.1	Chapter 9 applies to Lithium-ion. To be compliant as applicable.	
9.1.2	N/A.	
9.1.3	N/A.	
9.1.4	See chapters 4 through 8 for further details.	
9.1.5 – Fire and Explosion Testing.		
9.1.5.1	Compliant. UL9540A test report available for review.	
9.1.5.1.1	N/A for Lithium-ion.	
9.1.5.1.2	Compliant. FPE report available for review.	
9.1.5.1.3	Compliant. Manufacturer installation requirements align with devices tested.	
9.1.5.1.4	Compliant. FPE report available for review.	
9.1.5.2 – Test Reports.		
9.1.5.2.1	Compliant. UL9540A test report available for review.	
9.1.5.2.2	Compliant. FPE report available for review.	
9.2 Equipment.		
9.2.1 – Listing.		
9.2.1.1	Compliant. UL9540 listed.	
9.2.1.2	N/A for Lithium-ion.	
9.2.2 – HMA for Existing Lithium-Ion ESS.		
9.2.2.1	N/A for Megapack.	
9.2.2.2	N/A for Megapack.	
9.2.3 – Energy Storage Management System (ESMS).		
9.2.3.1	Compliant.	
9.2.3.2	Compliant.	
9.2.3.3	Site specific.	Scope of EPC
9.2.3.4	N/A for Lithium-ion.	
9.2.4 – Repurposed and Refurbished Batteries.		
9.2.4.1	N/A – Tesla does not use repurposed or refurbished batteries.	



Chapter 9 – Electrochemical Energy Storage Systems		
Subsection	Tesla Comments	Provider
<u>9.2.4.2</u>	N/A – Tesla does not use repurposed or refurbished batteries.	
9.3 Location Classification - Site specific.		Scope of EPC
9.3.1 – Indoor Installation. N/A – Megapack is an outdoor installation only.		
9.3.2 – Outdoor Installations. Site specific for outdoor locations.		
9.4 Installation.		
9.4.1 – Maximum Stored Energy. (1) N/A (2) Near exposures do not exceed the maximum stored energy values in Table 9.4.1 except as permitted by 9.4.1.2. (Generic HMA and fire testing available to meet 9.4.1.2) (3) N/A (4) N/A		Site specific Tesla can support
<u>9.4.1.1</u>	N/A – Megapack is an outdoor installation only.	
<u>9.4.1.2</u>	Site specific.	
<u>9.4.1.3</u>	N/A.	
<u>9.4.1.4</u>	N/A.	
9.4.2 – Size and Separation.		
<u>9.4.2.1</u>	See 9.4.2.3.	
<u>9.4.2.2</u>	See 9.4.2.3.	
<u>9.4.2.3</u>	Compliant. FPE report available for review.	
<u>9.4.2.4</u>	N/A for Lithium-ion.	
9.5 Location and Applications.		
9.5.1 – Indoor Installations. N/A for standard outdoor installations; otherwise, it is to be determined on a project-specific basis.		
<u>9.5.1.1</u>	N/A – Not a dedicated use building.	
<u>9.5.1.2</u>	N/A for standard outdoor installations; otherwise, it is to be determined on a project-specific basis.	
9.5.2 Outdoor Installations. Compliant for outdoor installations.		Scope of EPC



Chapter 9 – Electrochemical Energy Storage Systems		
Subsection	Tesla Comments	Provider
<u>9.5.2.1</u>	Tesla can provide documents to support HMA and the generic HMA.	Scope of EPC
<u>9.5.2.2</u>		
<u>9.5.2.2.1</u>	Areas within 10 ft (3048 mm) of the outer enclosure should be cleared of combustible vegetation.	Scope of EPC/Owner.
<u>9.5.2.2.2</u>	Exceptions can be made for single trees, cultivated covers (green grass), and other plants.	Scope of EPC/Owner.
<u>9.5.2.3</u>	N/A for 9.5.2.3 section for energy storage systems with non-walk-in enclosure.	
<u>9.5.2.4</u>		
<u>9.5.2.4.1</u>	Compliant. All Tesla industrial energy product enclosures are smaller than the maximum allowed size.	
<u>9.5.2.4.2</u>	N/A – Meet maximum size.	
<u>9.5.2.5</u>	Scope of EPC. Need to review with local code to eliminate water supply. If not, follow NFPA 1142.	ESS Owner and approved by the AHJ
<u>9.5.2.6</u>		
<u>9.5.2.6.1</u>	Site specific. N/A for remote locations. Minimum distance to any external (or hazardous) equipment is of 10 ft (3048 mm). See 9.5.2.6.1.3 and 9.5.2.6.1.4 for possible spacing reductions.	
<u>9.5.2.6.1.1</u>	Site specific.	
<u>9.5.2.6.1.2</u>	Site specific.	
<u>9.5.2.6.1.3</u>	FPE report available for review for spacing reduction.	
<u>9.5.2.6.1.4</u>	FPE report available for review for spacing reduction.	
<u>9.5.2.6.1.5</u>	N/A for Tesla products.	
<u>9.5.2.6.1.6</u>	N/A for Megapack.	
<u>9.5.2.6.1.7</u>	N/A for energy storage systems in Remote locations (see definition in Section 4.4.3.1). Otherwise, minimum distance to any means of egress of 10 ft (3048 mm). Minimum distance can be reduced to 3 ft (917 mm) when accepted by the AHJ through the results of a large-scale fire test (see Section 4.1.5). Scope of EPC to comply on a project level.	
<u>9.5.2.6.1.8</u>	N/A.	



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9.5.3 Specific Outdoor Locations.		
<u>9.5.3.1</u>	N/A for standard outdoor installations; otherwise, it is to be determined on a project-specific basis.	
<u>9.5.3.2</u>	N/A for standard outdoor installations; otherwise, it is to be determined on a project-specific basis.	
9.6 Protection and Remediation.		
9.6.1 – Smoke and Fire Detection.		
Smoke detection or radiant energy-sensing system to be installed by EPC/Owner.		
9.6.2 – Fire Control and Suppression.		
<u>9.6.2.1</u>	N/A for outdoor located energy storage systems with non-walk-in enclosures; otherwise, it is to be determined on a project-specific basis.	
<u>9.6.2.2</u>	N/A for Lithium-ion.	
<u>9.6.2.3</u>	Scope of EPC.	
9.6.3 – Water Supply.		
<u>9.6.3.1</u>	Compliant. See 4.9.4 for details.	
<u>9.6.3.2</u>	N/A for Lithium ion.	
9.6.4 – Fire Barriers.		
N/A for outdoor installations.		
9.6.5 – Technology-Specific Requirements.		
Compliant. Per Table 9.6.5 – only 9.6.5.5 and 9.6.5.5 apply for Lithium-ion technology.		
<u>9.6.5.1</u>	N/A for all 9.6.5.1 section. In accordance with Table 9.6.5 Li-ion batteries do not require exhaust ventilation.	
<u>9.6.5.2</u>	N/A for all 9.6.5.2 section. In accordance with Table 9.6.5.	
<u>9.6.5.3</u>	N/A for all 9.6.5.3 section. In accordance with Table 9.6.5 - Li-ion batteries do not require neutralization.	
<u>9.6.5.4</u>	N/A. In accordance with Table 9.6.5 - Li-ion batteries do not require safety caps.	
<u>9.6.5.5</u>	Compliant. Required by Table 9.6.5 - Permitted to be part of the battery management system compliant to UL 1973 and UL 9540 per 9.6.5.5.2.	
<u>9.6.5.5.1</u>	N/A for Lithium-ion.	



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<u>9.6.5.5.2</u>	Compliant. Battery Management System evaluated as part of UL 1973 and UL 9540.	
<u>9.6.5.6</u>		
<u>9.6.5.6.1</u>	Compliant. Required per Table 9.6.5 for Lithium-ion.	
<u>9.6.5.6.1.1</u>		
<u>9.6.5.6.1.2</u>	N/A for Lithium-ion.	
<u>9.6.5.6.2</u>	N/A for Lithium-ion.	
<u>9.6.5.6.3</u>	Compliant to (2). N/A. Not per NFPA 69 N/A. See 9.6.5.6.4	
<u>9.6.5.6.4</u>	Compliant. Megapack tested per unit level testing. Deflagration analysis available.	
<u>9.6.5.6.5</u>	Compliant. All Tesla industrial energy products' testing completed to UL 9540A that complies with 4.1.5. No deflagrations or ejections of hazardous materials occurred during full unit-level testing. Reports available.	
<u>9.6.5.6.6</u>	Compliant. (1) See 9.6.5.6.3 (2) N/A for Megapack	
<u>9.6.5.6.7</u>	N/A for Megapack. NFPA 69 not utilized.	
<u>9.6.5.6.8</u>	N/A.	
<u>9.6.5.6.9</u>	Compliant. FPE report available for review.	
9.6.6 – Remediation Measures.		
<u>9.6.6.1</u>	Authorized service personnel shall be sent on site in case of a fire event, or other possible event that might cause ignition of the energy storage system. All service personnel are Tesla certified.	
<u>9.6.6.2</u>	Scope of Owner.	Owner or their authorized agent
<u>9.6.6.2.1</u>	Scope of Owner.	
<u>9.6.6.2.2</u>	Scope of Owner.	
<u>9.6.6.2.3</u>	Scope of Owner.	
<u>9.6.6.2.4</u>	Scope of Owner.	Owner
<u>9.6.6.2.5</u>	Scope of Owner.	



Revision History

Revision	Date	Description
1.1	August 1, 2024	Updated to NFPA 855-2023 edition
1.0	August 12, 2022	Initial Revision (current to NFPA 855-2020 edition)

Contact codecompliance@tesla.com with any code-related questions or inquiries.