

# List of Abbreviations

AASHTO	American Association of State Highway and Transportation Officials	DP	Damage Potential
ACI	American Concrete Institute	EIA	Electronics Industries Association
ADA	Americans with Disabilities Act	EPB	Earth Pressure Balance
AISC	American Institute of Steel Construction	EPS	Expandable Polystyrene
ANSI	American National Standards Institute	ERP	Emergency Response Plan
APR	Air-Purifying Respirator	FEMA	Federal Emergency Management Agency
AREMA	American Railway Engineering and Maintenance Association	FHWA	Federal Highway Administration
ASCE	American Society of Civil Engineers	FIT	Fire in Tunnels
ASHRAE	American Society of Heating, Refrigerating and Air-Conditioning Engineers	°F	Degrees Fahrenheit
ATM	Asynchronous Transfer Mode	GA	Tabun
ATMB	Autoroutes et Tunnels du Mont Blanc (the French agency that jointly operates the Mont Blanc Tunnel with the Italian agency SITMB)	GB	Sarin
ATS	Austrian Schillings	GD	Soman
AUA	American Underground Construction Association	HazMat	Hazardous Material
AWS	American Welding Society	HVAC	Heating, Ventilating, and Air Conditioning
BART	Bay Area Rapid Transit	IBTTA	International Bridge, Tunnel and Turnpike Association
B&O	Baltimore & Ohio	ICS	Incident Command System
BTP	British Transport Police	IDS	Intrusion Detection System
C/B/R	Chemical/Biological/Radiological	IEC	International Electrotechnical Commission
CCTV	Closed-Circuit Television	IED	Improvised Explosive Device
CCVE	Closed-Circuit Video Equipment	IEEE	Institute of Electrical and Electronics Engineers
CM	Countermeasure	IEMA	Illinois Emergency Management Agency
Comms	Communications	ITA	International Tunnelling Association
COSUF	Committee on Operational Safety of Underground Facilities	km	Kilometer
CPT	Cone Penetration Test	LAN	Local Area Network
CTA	Chicago Transit Authority	m	Meter
°C	Degrees Celsius	MARC	Maryland Area Rail Commuter
DARTS	Durable and Reliable Tunnel Structures	MBTU	Million British Thermal Units
DHS	Department of Homeland Security	MCEER	Multidisciplinary Center for Earthquake Engineering Research (formerly the National Center for Earthquake Engineering Research, located at the University of Buffalo)
DOT	Department of Transportation	(formerly NCEER)	
		MEC	Mechanical, Electrical, and Communications
		MOA	Memorandum of Agreement

MOU	Memorandum of Understanding	SCBA	Self-Contained Breathing Apparatus
MTA	Maryland Transit Administration	SEM	Sequential Excavation Method
MTFVTP	Memorial Tunnel Fire Ventilation Test Program	SITMB	Società Italia per l'Esercizio del Traforo del Monte Bianco (Italian agency that jointly operates the Mont Blanc Tunnel with the French agency ATMB)
MW	Megawatts		
NCEER	National Center for Earthquake Engineering Research	SONET	Synchronous Optical Network
NFPA	National Fire Protection Association	SPT	Standard Penetration Test
NRCC	National Research Council of Canada	TBM	Tunnel Boring Machine
NTSB	National Transportation Safety Board	TNT	2,4,6-Trinitrotoluene
OV	Operational Vulnerability	TSA	Transportation Security Administration
PATH	Port Authority Trans-Hudson	UPTUN	UPgrading Methods for Fire Safety in Existing TUNnels
PCB	Polychlorinated Biphenyl		
PIARC	World Road Association	USDOJ	United States Department of Justice
PUC	Public Utilities Commission	Vent	Ventilation
PV	Physical Vulnerability	VoIP	Voice-Over Internet Protocol
PVC	Polyvinyl Chloride	WTC	World Trade Center
RFP	Reinforced Fiber Protection	VX	V Agent
SCADA	Supervisory Control and Data Acquisition		

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