## **EXIT DISTANCE OF VARIOUS EXISTING ACCELERATORS (FOR INFO ONLY)**

Regions	Laboratory	Name of Encisoure / Tunnel	Year Designed	Maximum Distance between exits	Exit to Discharge (see Note A)	Remarks
A m e r i c a s	FNAL	TEV	1968	243.84 m (800 Ft)	30.48 m (100 Ft)	Fire alarm and smoke detection at service buildings
		Main Injector	1992	182.88 m (600 Ft)	21.336 m (70 Ft)	Fire alarm and smoke detection throughout enclosure; sprinkler protection at Alcoves and Service Buildings.
		NuMI - MINOS	1999	0.91 Km (3000 Ft)	182.88 m (600 Ft)	Exit is to Passageway and exludes elevator travel distance. Passageway has automatic sprinkler protection
	SLAC	SLAC Linac	1962	200 m (330 ft)	~9 m (~30ft)	Opening to shaft ladder - 30ft up to Klystron Gallery- excludes travel distance up ladder.  PEP Tunnel diam. ~700 m (2,300 ft).
		PEP tunnel	1975	360 m ( 1,180 ft)	~6 m (~20ft)	Exits at 5 interaction regions (IR-12, -2, -4, -6, and -8).
E	CERN	LHC SPS	1996 1971	3 Km (1.86 mi) 1.1 Km (3608 Ft.)	100 m average 0 m (direct, no sas)	Use of oxygen masks is compulsary Use of oxygen masks is compulsary
u r		373	1971	1.1 KIII (3000 Ft.)	o m (direct, no sas)	Ose of oxygen masks is compulsary
0		HERA	1984	1.5 Km		
p	DESY	HEIVA	1304	1.0 1(11)		
e						
A s i a n	KEK	KEKB	1985	~200m	~15m	Circumferernce: 3 km, 20 exits total. Thermo-detection at tunnel, smokedetection at service buildings. Oxigen alarm at SCRF sector. Full ventilation of experiment halls at fire detection.

Note-A: The maximum distance between exits, or better said is the exit distance within the underground enclosure to enclosed exit stair. For example, our Main Ring enclosure is approximately 25-feet below grade. The distance between the entrance doors to stairwells is 243.84M (800 ft). (The stairwells are enclosed with 2-hour fire resistance construction). The stairways in turn lead to in our Support Service Buildings at grade and therefore; the combined distance from bottom of the stairway through the service building to exit leading outside is 30.48M (100ft).