

Contents	Page
1 Introduction.....	1
2 Scope and purpose	1
2.1 Scope	1
2.2 Purpose	1
3 Compression system design	1
3.1 General.....	1
3.2 Design considerations	1
4 Location of oxygen compressors.....	2
4.1 Personnel safety.....	2
4.2 Indoor installation	3
4.3 Outdoor installation.....	3
5 Hazard area.....	3
5.1 Definition.....	3
5.2 Description.....	4
5.3 Enclosure of the hazard area by a safety barrier	4
5.4 Access to the hazard area.....	4
5.5 Equipment location	4
5.6 Piping.....	5
6 Barrier design for oxygen compressors.....	6
6.1 Purpose	6
6.2 Design forces.....	6
6.3 Barrier materials	6
6.4 Centrifugal compressors.....	9
6.5 Reciprocating compressors.....	10
7 Operating procedures.....	10
7.1 Purpose	10
7.2 General.....	10
7.3 System cleanliness.....	10
7.4 Equipment operation	11
7.5 Startup.....	12
7.6 Shutdown.....	14
7.7 Maintenance.....	14
8 Fire protection	15
8.1 Housekeeping.....	15
8.2 Emergency plan.....	15
8.3 Firefighting equipment.....	15
9 References	15
10 Additional references.....	16

Figures

Figure 1—Centrifugal oxygen compressor impact force distribution on barrier	7
Figure 2—Reciprocating oxygen compressor impact force distribution on barrier.....	8