

Effect zones

A process unit is 100×50 m. Personnel consists of 10 operators and 10 maintenance technicians.

Table 1: Employees schedule

	field	control room	maint. shop
operator	10%	90%	0%
technician	40%	20%	40%

1. What is the occupancy of control room?
2. What is the population density in the field?
3. What is the consequence, if effect zone was determined for 50% vulnerability of fatality?