CHECKLIST – AUTHORIZATION FOR PHYSICAL MEASUREMENTS

We request you to submit this optional checklist along with supporting documents to: RHBRMT@cdph.ca.gov

Date: St	ate Facility Registration Number (if already registered): FAC
Facility Name:	
Physical Address:	
Mailing Address:	
Individual Responsible	e for the Facility (ex: Medical Director):
Name:	Title:
Therapeutic Medical F	Physicist Name:
Facility Contact:	
Name:	Title:
Phone:	Email:
Machine Make and M	odel:
Room (Vault) Name/N	Number:
All Photon Energies (N	MV): All Electron Energies (MeV):
Machine Output Rate	s (cagy/min at isocenter):MU/min max
Max Field Size:	cm²
	SHIELDING EVALUATION REPORT
	est 60 days prior to possession of radiation machine or at least 60 days accement of construction or reconstruction of vault.
	d ceiling areas that can be struck by the useful beam shall be provided rective barriers, plus a border of one foot.

Control station shielding shall be an integral part of the building or anchored to the building.
Control station shall be provided with a window (with radiation attenuation equal to that required by the adjacent barrier), a mirror system, or CCTV. Patient area must be visible without having to leave the protected area during exposure.
Treatment room shall be provided with interlocks. It shall be possible to restore machine to full operation only from the control panel.
Control station shall be in protective booth or in adjacent room.
Where large power-driven doors offer the only access to the room, a minimum of one door shall be provided with an auxiliary means for being opened in case of power failure or mechanical breakdown.
A flashing red warning signal light energized only when the useful beam is "ON" shall be located adjacent to the entrance(s) to a therapy room.
Shielding barriers in rooms housing machines shall comply with mandatory (sic) standard and appendixes of NCRP reports numbers 49 and 51.
Occupational dose less than 5000 mrem per year.
Public dose less than 100 mrem per year and less than 2 mrem in any one hour for unrestricted areas.
Assumed that the individual is at least one foot away from the barrier.
REASONABLE AND CONSISTENT VALUES PROVIDED IN REFERENCE MATERIAL FOR:
Barrier requirements
Workload and leakage factor
Workload, secondary barrier, adjusted for additional modalities
Use Factor
Occupancy Factor

ENGINEERING DRAWINGS THAT CLEARLY SPECIFY SHIELDING DESIGN INCLUDING:

Materials/Compositions
Thicknesses
Densities
Distances
Penetrations/Joints
Observation Windows
L's specified and acceptable for each material for primary and leakage barrier culations.
ntrolled and uncontrolled areas are clearly specified.
ditional sources of radiation exposure, such as neutrons or sky shine, are identified and counted for in shielding calculations.
e roof is adequately addressed by shielding, or access restricted by gineering/administrative controls.
nclusion meets regulatory requirements and signed by the Medical Physicist.