RADIOFREQUENCY (RF) SAFETY EXPOSURE CATEGORIZATION

Exposure conditions		Control measures	Signage
 Operational of the source(s) locations where RF fields are weak to cause exposures greathan General Public limit. Cat. Occupational General Public 1 <20% <100% Green zone is where the time spatial-average is below 20% Occupational Worker limit or below 100% of General Public limit. 	and	 RF Safety Guideline/NIER report must be submitted to RFSO for approval. No special EME safety practices required in these areas. No signage required except for Information sign or antennas owner and registration site information. 	INFORMATION sign at rooftop/access door.
locations where RF exposure could cause exposure greater than General Public limit but not the Occupational Worker limit to be exceeded in accessible areas.		 RF Safety Guideline/NIER report must be submitted to RFSO for approval. <i>Recommended</i> RF safety awareness training for all workers in this area. Controlled areas with barriers and/or signage required in these areas. Do not walk in front of the antenna face; no loitering in this controlled area. Individual MUST have full control over any area where the exposure levels exceed the limit. 	NOTICE signage shall be posted on the barriers/stanchion to prevent anyone from entering into the area (must be cordon off around the antennas - 4 posts /3 signs). NOTICE NOTICE NOTICE NOTICE NUMBER OF THE POST OF THE POS
Operational of the source(s) locations where RF exposure exceeded the Occupational Worker limit in accessible are		 RF Safety Guideline/NIER report must be submitted to RFSO for approval. Individual <u>shall not</u> enter and work in these areas without RS approval. 	CAUTION signage shall be posted on the barriers/stanchion to prevent anyone from entering into the area (must be cordon off around the antennas - 4 posts /3 signs).



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E>	Exposure conditions			Control measures	Signage
	Occupational Worker	General Public	•	Required RF safety training and access area is restricted only for trained worker.	
Yellow averag	3≥100%≥500%Yellow zone is where the spatial average is above 100% of Occupational Worker limit.			 Controlled areas with barriers and signage required in these areas. Do not walk in front of the antenna face. Requires reduction of RF power and approval from Radiation Or must be posted in locat 	EXPOSURE LIMITS FOR HUMAN EXPOSURE. For your safety, obey all posted signs and site guidelines for working in radio frequency environments.
				Safety prior any work on the antennas.	be easily viewed by individuals that enter the areas of concerns.
•	Exposure will exceed exposure limit in accessible areas.		•	• RF Safety Guideline/NIER report must be submitted to RFSO for approval.	WARNING
	Occupational Worker	General Public	•		((,,))
 Red zo spatial 	4>500%>1000%Red zone is where the time and spatial-averaged levels fall above 500% of Occupational Worker limit or is not feasible to prevent exposures.EME – electromagnetic energy		t •	 access! There must be controls to detect any unauthorized entry and terminate the RF energy in the area. Lockout/tagout of transmitters during the maintenance of the 	THIS POINT OREATLY EXCEED THE FCC EXPOSURE LIMITS FOR HUMAN EXPOSURE. ENTRANCE PROHIBITED Is accordance with Federal Communication Commission
or is no					
			•		A DANGER
				Special RF training and PPE are required. (Applies only to individuals trained by RS).	Radio Frequency Hazard Dangerous to Pacemakers

EME – electromagnetic energy

General Public Limit – limit of radiofrequency energy exposure set by the Federal Communications Commission (FCC) NIER - Non-Ionizing Electromagnetic Radiation

Occupational Worker Limit - Limit of radiofrequency energy exposure set by the Federal Communications Commission (FCC) PPE – personal protective equipment

RF fields – *RF fields make up the electromagnetic wave, which is the radio signal.*

RF energy - radio waves emitted by transmitting antennas are collectively referred to as "radiofrequency" or "*RF*" energy. *RFSO* – *Radiofrequency Safety Officer*

RS – Radiation Safety, an Environmental Health & Safety program

Visit the Environmental Health & Safety (EH&S) website for more information.

Contact Radiation Safety at radsaf@uw.edu or (206) 543-0463 with questions.