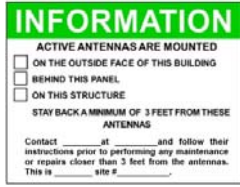






RF Safety Exposure Categorization

Exposure Conditions	Control Measures	Signage						
<ul style="list-style-type: none"> Operational of the source(s) or locations where RF fields are too weak to cause exposures greater than General Public limit. <table border="1" style="margin: 10px auto; border-collapse: collapse; text-align: center;"> <tr> <th style="width: 10%;">Cat.</th> <th style="width: 20%;">Occupational Worker</th> <th style="width: 20%;">General Public</th> </tr> <tr style="background-color: #d9ead3;"> <td>1</td> <td><20%</td> <td><100%</td> </tr> </table> <ul style="list-style-type: none"> Green zone is where the time and spatial-average is below 20% of Occupational Worker limit or <100% of General Public limit. 	Cat.	Occupational Worker	General Public	1	<20%	<100%	<ul style="list-style-type: none"> 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 Information sign. 	<div style="text-align: center;">  </div> <p><i>*the antenna owner information and Antenna Structure Registration Number and must be displayed on the sign.</i></p> <p>INFORMATION sign for access to rooftop/access door.</p>
Cat.	Occupational Worker	General Public						
1	<20%	<100%						
<ul style="list-style-type: none"> Operational of the source(s) or locations where RF exposure could cause exposure greater than General Public limit but not the Occupational Worker limit to be exceeded in accessible areas. <table border="1" style="margin: 10px auto; border-collapse: collapse; text-align: center;"> <tr> <th style="width: 10%;">Cat.</th> <th style="width: 20%;">Occupational Worker</th> <th style="width: 20%;">General</th> </tr> <tr style="background-color: #d9ead3;"> <td>2</td> <td>≥20% but <100%</td> <td>>100%</td> </tr> </table> <ul style="list-style-type: none"> Blue zone is where the spatial average is between 20%-100% of Occupational Worker limit. This limit MUST be less than the Occupational limit. 	Cat.	Occupational Worker	General	2	≥20% but <100%	>100%	<ul style="list-style-type: none"> RF Safety Guideline/NIER report must be submitted to RFSO for approval. Recommended RF safety awareness training for all workers in this area. Controlled areas with barriers and/or signage required in these area. Do not walk in front of the antenna face or no loitering in this controlled area. Individual MUST have full control over any area where the exposure levels exceed the limit. 	<div style="text-align: center;">  </div> <p>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).</p> <p>Or must be posted in location that can be easily viewed by individuals that enter the areas of concerns.</p>
Cat.	Occupational Worker	General						
2	≥20% but <100%	>100%						
<ul style="list-style-type: none"> Operational of the source(s) or locations where RF exposure exceeded the Occupational Worker limit in accessible areas. <table border="1" style="margin: 10px auto; border-collapse: collapse; text-align: center;"> <tr> <th style="width: 10%;">Cat.</th> <th style="width: 20%;">Occupational Worker</th> <th style="width: 20%;">General Public</th> </tr> <tr style="background-color: #fff2cc;"> <td>3</td> <td>≥100%</td> <td>≥500%</td> </tr> </table> <ul style="list-style-type: none"> Yellow zone is where the spatial average is above 100% of Occupational Worker limit. 	Cat.	Occupational Worker	General Public	3	≥100%	≥500%	<ul style="list-style-type: none"> RF Safety Guideline/NIER report must be submitted to RFSO for approval. Individual shall not enter and work in these areas without RS approval Required RF safety training and access area is restricted only for authorized worker. Controlled areas with barriers and signage required in these area. Do not walk in front of the antenna face. Require reduction of RF power and approval from Radiation Safety prior any work on the antennas. 	<div style="text-align: center;">  </div> <p>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).</p>
Cat.	Occupational Worker	General Public						
3	≥100%	≥500%						
<ul style="list-style-type: none"> Exposure will exceed exposure limit in accessible areas. <table border="1" style="margin: 10px auto; border-collapse: collapse; text-align: center;"> <tr> <th style="width: 10%;">Cat.</th> <th style="width: 20%;">Occupational Worker</th> <th style="width: 20%;">General Public</th> </tr> <tr style="background-color: #f2dede;"> <td>4</td> <td>>500%</td> <td>>1000%</td> </tr> </table> <ul style="list-style-type: none"> Red zone is where the time and spatial-averaged levels fall above 500% of Occupational Worker limit or is not feasible to prevent exposures. 	Cat.	Occupational Worker	General Public	4	>500%	>1000%	<ul style="list-style-type: none"> RF Safety Guideline/NIER report must be submitted to RFSO for approval. MUST re-engineer site to reduce the EME fields. No access allowed-Prohibited access! There must be controls to detect any unauthorized enter and terminate the RF energy in the area. Lock out tag out of transmitters during the maintenance of the antenna system. PPE is not sufficient. Special RF training and PPE are required. (Applies only to individuals trained by RS). 	<div style="display: flex; justify-content: space-around;"> <div style="text-align: center;">  </div> <div style="text-align: center;">  </div> </div> <p>RF WARNING & Pacemaker DANGER signage or appropriate DANGER sign shall be posted very near radiation RF sources or if appropriate DANGER sign.</p>
Cat.	Occupational Worker	General Public						
4	>500%	>1000%						