

SECTION : 2 General Survey

2.8 Radio / Microwave tower ground grid is to be properly bonded to the COGF by a direct outside connection. Handhold enclosure is to be used for the COGF connection to permit inspection and disconnect for earth resistance testing. (Refer to RUS TE&CM 810,
Acceptable Yes No

Comments: The satellite dishes and TV tower are not grounded to a grid or ground rods.

2.9 If a qualified metallic water system is present, inspect the MGB connecting conductor to ensure that it is properly sized and installed by the most direct route with no sharp bends and that it is clamped solidly on the water pipes. (Refer to RUS TE&CM 810
Acceptable Yes No

Comments: There is a 2/0 conductor labeled "water pipe" grounded to the CEGB in the garage but no "water pipe" appearance at the MGB.

2.10 All power and grounding conductors are to be continuous, end to end with no splices, size discontinuity or immediate terminations. If an exception is necessary, unusual care must be taken to assure proper bonding between the two sections. (Refer to RUS
Acceptable Yes No

Comments: The 2/0 MGN ground conductor from the MGB to the AC panel is spliced with a split bolt. If a splice is to be made a compression "H" tap should be used. Ideally, the conductor should be contineous. (see photo 1)

2.11 All ground conductors should be void of sharp bends along their entire length. (Refer to RUS TE&CM 810, Item 8.2.2)
Acceptable Yes No

Comments: At the MGB an unidentified 2/0 at punch #5 should be rerouted to a bottom hole to remove the tight bend.

2.12 Ground conductors should only be placed in non metallic conduit. Those routed through metallic conduit require that both ends of the conduit be bonded to the ground conductor. (Refer to RUS TE&CM 810. Item 8.2.4)
Acceptable Yes No

Comments: The generator has it's 2/0 frame ground run thru metal conduit. There is an unidentified 2/0 cable from the MGB that enters the cable vault and continues thru the ceiling in metal conduit.

2.13 Ground conductors should not be encircled by metallic clamp. Metallic straps are to be removed and replaced with nonmetallic clamps. (Refer to RUS TE&CM 810, Item 8.2.4.)
Acceptable Yes No

Comments: