



**RTU AND TOWER
GROUNDING PROCEDURE**

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NOTICE

Data Flow Systems, Inc. assumes no responsibility for any errors that may appear in this document, nor does it make any commitment to update the information contained herein. However, questions regarding the information contained in this document are welcomed.

Data Flow Systems also reserves the right to make changes to the RTU grounding procedure and to the information contained in this document at any time without notice.

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WARNING

Wear high voltage gloves (1000 VAC protection) when performing this procedure

Note: Underground locates must have been completed prior to proceeding.

Grounding for the tower and DFS equipment is provided by a #6 solid bare-copper wire having a continuous connection (no splices) between a 10' X 5/8" tower ground rod , the tower, the local power utility grounding rod, and the polyphaser-mounted ground lug.

1. At a position adjacent to the concrete pad nearest to the back of the tower's rear leg, drive the 5/8" X 10' ground rod in the ground until just below concrete pad.
2. Grounding: Determine if the site work has been completed.
 - **Temporary Ground (site work *not* complete)** - Run a #6 bare copper wire between the copper grounding rod and the tower base. Attach the wire to the ground rod with a 5/8" tear drop ground lug. Use a 1-1/4" ground clamp with copper screw to attach the temporary ground to the tower leg.
 - **Permanent Ground (site work complete)** - Install a continuous run of #6 bare-copper wire between the grounding rod, the tower, the local utility grounding rod, and the DFS enclosure or polyphaser-mounted ground lug. Use a 1-1/4" ground clamp with copper screw on the tower leg adjacent to the concrete. Grounding to the ground rods should be done with a 5/8" tear drop ground lug.

Illustration – Ground wire connected to RTU Polyphaser



Illustration – Ground wire connected to Tower





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