Technical Bulletin
NO. 941

TOPIC: DATA REQUIREMENTS FOR BUS ANALYSIS.

File TEC941f

DynAmp : 3735 Gantz Road, Grove City, Ohio, USA
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DynAmp, LLC : formerly known as
LEM DynAmp, High Current Systems

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The DynAmp computer program requires certain data inputs to perform the analysis. These are listed below. **Failure to provide all required information may result in a delay processing the bus analysis results.**

1) The total NUMBER of heads in use on the system during normal operation.

2) Dimensioned PLAN AND ELEVATION drawings of ALL bus work within a 10 meter radius of each proposed measuring head location. Dimensions may be in any conventional units, but must be consistent.

   a) Single heads: within 10 meters (33 feet) radius of proposed head location.

   b) Multiple heads: within 20 meters (65 feet) radius of **each** proposed head location.

NOTE: Dimensioned drawings must contain enough detail to fully represent the bus layout in a true (X, Y, Z) coordinate system**.**

   a.) Each straight bus section must be referenced to plan dimensions and elevation dimensions.

   b.) We must have a cross section dimension for every bus that is within 10 meters of the measuring head.

3) Show the prime locations of the measuring heads.

4) Indicate the expected measuring range of each head location, (in minimum and maximum bus amperes).

5) Show any alternate locations of the measuring heads.

6) Indicate the DIRECTION and NORMAL MAGNITUDE of the CURRENT in each bus. Drawing current direction arrows on bus layout prints will be helpful.

7) Indicate the MAXIMUM CURRENT through each bus.

8) Show the cross sectional dimensions of each bus passing through a measuring head.

9) State the MINIMUM NUMBER of rectifiers which can remain in sustained operation and the NORMAL and MAXIMUM current magnitudes for each.

10) Show any structural details which might mechanically interfere with the installation or positioning of the measuring head(s).

11) Identify and dimension any ferromagnetic materials that are within 2000 mm of each sensor location. See Technical Bulletin 987 for recommendations of iron steel that is in this space.

12) Indicate the maximum Ambient Temperature

13) Indicate the maximum Bus Temperature

14) Will environmental covers be used?

15) All drawings submitted must be legible.

ALL TECHNICAL INFORMATION AND DOCUMENTATION RECEIVED BY DynAmp, LLC, FROM THE CUSTOMER, WILL BE HELD IN THE STRICTEST CONFIDENCE.

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