

**Part 1 General****1.1 PROGRAMMING**

- .1 Sequences, procedures and programs described in "Execution" part of the current section represent minimum operation criteria, omitting small details required for system fine tuning. The suppliers for the current section is responsible for programming and must, as an expert in the commissioning of this type of installation, provide all control stratagems, including delays, ramps, readjustments, locking, nesting loop, etc., in order to have a secure operation, simple and efficient systems.
- .2 Any modification, addition or required refinements for systems stability or equipment protection by Departmental Representative will have to be executed at no charge.

**1.2 CONFIGURATION AND CUSTOMIZATION**

- .1 System configuration and customization to be executed in collaboration with Departmental Representative in order to allow an easy transfer to operation team.
- .2 Messages, descriptions, equipment key-words, etc., have to be submitted for approval. Control contractor must use the same symbols and identifications appearing on existing shop drawings.
- .3 Choice of colors, disposition on screen, systems repartition, tree structure (level of intrusion) and graphic configuration is done in coordination with Departmental Representative.
- .4 Making of reports, headers, presented information and its disposition, printing frequency and period, etc., are done in coordination with Departmental Representative.

**1.3 CRITERIA**

- .1 Set point, parameters and constants:
  1. All set points, rates and compensation limits are adjustable by the operator according to his access level.
  2. In the same manner, all the parameters, constants, programmed delays are readjustable by the operator having the right access level.
- .2 Analog alarms:
  1. For each point of analog reading, program high and low-limit alarms.
  2. These set points should be resetable and the alarms cancelled if required by the operator.
- .3 Critical alarms:
  1. When the status is available, program critical alarms for the following points:
    - .1 Unauthorized on-off.
    - .2 Fault (equipments).

- .4 Maintenance alarms:
  - 1. When the status is available, program maintenance alarms for the following points:
    - .1 System stopped.
    - .2 Running time.

**Part 2 Products**

**2.1 NOT USED**

- .1 Not Used.

**Part 3 Execution**

**3.1 NOT USED**

- .1 Not Used.

**END OF SECTION**