

14 01 00 – Conveying Systems (Guarantees, Service & Instruction Manuals)

1. General

Two sets of instructions, parts lists, manufacturer's literature and any software interface tools necessary for the operation and maintenance of the equipment must be furnished by the manufacturer. The information shall include the following:

- A. A description of the elevator system's sequence of operation and control, including the functions of signals, door devices and solid-state circuit boards showing troubleshooting voltages; written instructions for the troubleshooting, adjustment and care of all equipment.
- B. A replacement parts list with part numbers.
- C. Two sets of electrical circuit wiring diagrams of the reproducible, non-fading type shall be required for a single-unit installation. One set shall be delivered to the Project Manager and one set shall be sealed in a clear material and mounted in the elevator machine room. If several elevators with identical controls are installed in a single building, one set of diagrams shall be installed in each elevator machine room and one set shall be supplied to the Project Manager. The identification label for each diagram and manual shall include the subject, building name and location and contract number to which the diagrams and manuals apply.
- D. The Contractor shall furnish full maintenance service by trained employees on the elevator(s) for twelve months from the date of acceptance, to run concurrently with the warranty. This service shall include systematic preventive maintenance, including items such as adjustments, lubrication, routine cleaning of the elevator equipment in machine rooms and hoist ways and repair or replacement of electrical and mechanical components using genuine manufacturer's replacement parts. Preventive maintenance service shall be done at least once each month. This work must be checked off on a standard maintenance form which will be provided to the Project Manager.
- E. At the end of the warranty period, the elevator manufacturer must furnish to Duke FMD any software interface tools required for maintenance and updates to the elevator control software. In cases where the elevator manufacturer is unable to furnish these software interface tools, non-proprietary control software must be installed in place of the manufacturer's proprietary software. The performance and functionality of any non-proprietary control software must be equal to that of the manufacturer's proprietary software so that the performance of the elevator system may not be compromised by this substitution.