E2 STATUS REPORTING AND CONTROL SYSTEM

REMOTE STATION CONNECTIONS AND CENTRAL STATION DISPLAY

OVERALL SYSTEM

TESTS - INTERCONNECTION AND DISPLAY

1. PURPOSE

1.01 The purpose of these tests is to insure that all station equipment alarms, status, and remotely operated switches are properly interconnected with the E2 remote station equipment and properly displayed at the E2 central station equipment. The Equipment Test Lists are not affected.

2. FREQUENCY OF CHECKS

2.01 These checks should be performed at the following times:

(a) When a new E2 system becomes operational (requires checks at all remotes and the central)

(b) When alarms, status, or remote switches are added to or rearranged at E2 remote stations (requires checks at affected remotes and the central)

(c) When new E2 remote stations are added for control from an existing central (requires checks at the added remotes and the central).

3. PREPARATION

3.01 Since the specific interconnections and associated displays or commands will in general be unique to a given office or group of like offices, it will be necessary to prepare a check list of alarms, status, and remote switches for each. It is suggested that the following procedure be followed in preparing a check list.

(a) For each office equipped with E2 remote station equipment, list the systems, by type, including power plant and miscellaneous building services.

(b) Consult system application schematics for the type of systems located in the office. These schematics specify the interconnections and display indicator locations for the system to which they apply. Make a tabular listing of all status, alarms, and remote switches for the office to be checked.

(c) For those type systems for which no application schematic exists, consult the appropriate Plant Series BSP and/or circuit schematic to determine the status, alarm, and switch function. Add these to the check list.

(d) Add to the check list those status, alarm, and switch functions interconnected as a result of local assignment.

Two copies of a check list should be prepared for each office equipped with an E2 remote (one copy for the remote station and one for the central station).

3.02 In performing the tests described in 4.02, there will be situations in which it is not possible to bring up actual alarm conditions or affect final switches. In such cases, the functions will have to be simulated by manually shorting the alarm or status lead pair connecting to the E2 equipment, or checking for a closure on the remote switch pair while blocking the actual switch. Such simulation should, in all cases, include a check of the office wiring between the E2 remote station equipment and the affected office equipment.

4. TESTS

4.01 These tests require coordination and voice communications between personnel at the E2 central station and the office equipped with E2 remote station equipment.

4.02 At the office equipped with E2 remote station equipment, activate each status and alarm point listed on the office alarm and status check list either by bringing up the actual alarm or status condition or by simulation as described in 3.02. Concurrently check at the E2 central to insure that each status and alarm is properly reported and displayed.

4.03 Initiate each remote switch command at the E2 central station. Concurrently at the office equipped with E2 remote station equipment, check to insure that the proper switch command is executed. If possible, check the command switch for actual operation; otherwise, check by simulation as described in 3.02.