

Total Plant Solutions
R500—R530
US Implementation

Configure Easy
Reload File

L53430T
LCN

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Revision 08 – December 31, 1997

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References

| Publication Title | Publicatio n Number | Binder Title | Binder Number |
|----------------------------------|--------------------------------|-------------------------|--------------------------|
| <i>Process Operations Manual</i> | SW11-501 | Operation | TPS 3050 |

Introduction

Module Overview

Introduction

This module describes how to use the text editor to configure a custom file for reloading nodes on the LCN.

Objectives

Given a requirement for LCN loading, create a Load Configuration file:

- specify which nodes are to be loaded,
 - configure node loading order, and
 - assign a personality to US nodes.
-

Sample test items

This course module's Criterion Test asks you to demonstrate successful completion of the lab exercise by initiating a load with the

LOAD CONFIG target.

Configure Easy Reload File

Creating a Load Configuration File

Purpose

Before R500, LCN node loading took place mainly from the status displays, one node at a time. In R500, the new System Status display allows you to load nodes one at a time or in groups.

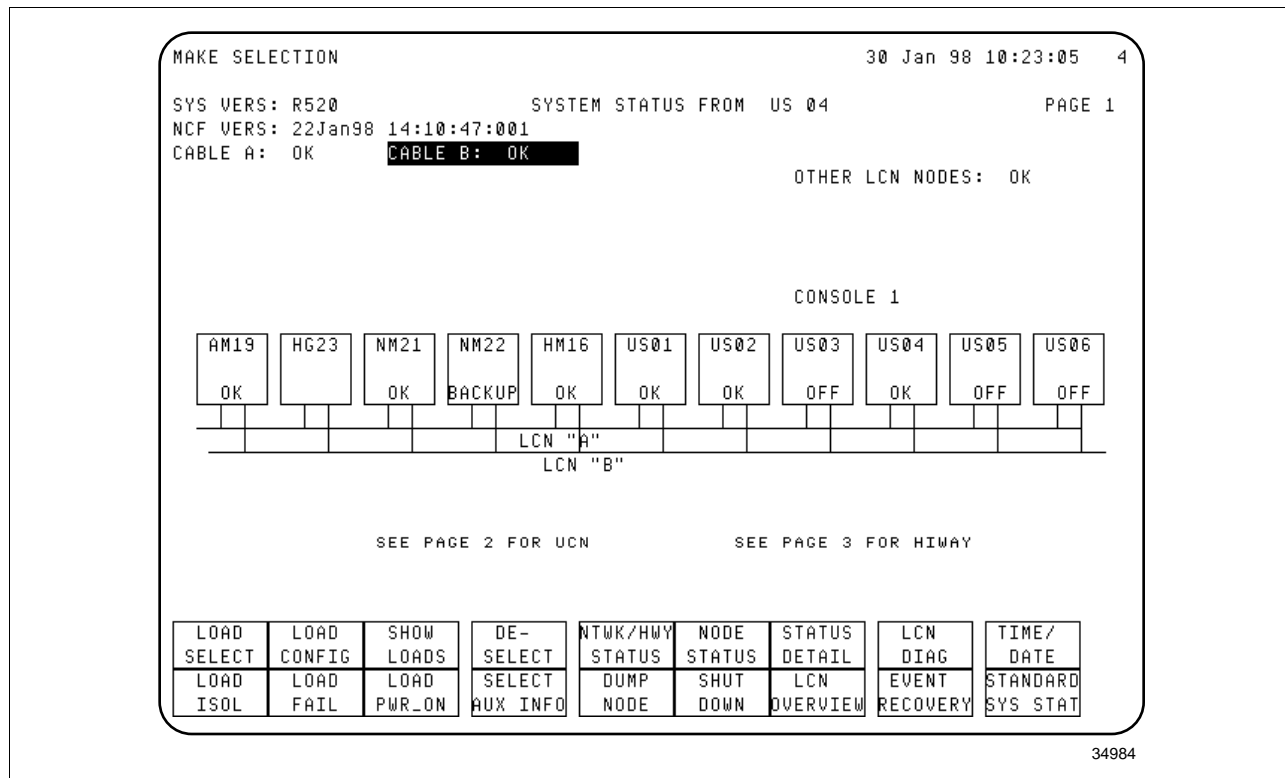
The Load Configuration file is part of the “Easy Reload” functionality, making it possible to load a group of nodes by simply selecting a target and pressing enter. The Load Configuration file allows the user to customize a loading sequence that can be executed whenever the **LOAD CONFIG** target is selected.

LOAD CONFIG functions

The **LOAD CONFIG** target is new to R500 and appears on the System Status display. (Refer to Figure 1.) When selected, this target initiates a loading sequence configured for

- which nodes to load,
- node loading order, and
- operating personalities.

Figure 1 R500 System Status Display



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Creating a Load Configuration File, Continued

Loading options

The default loading order for loads initiated by using LOAD ISOL, LOAD FAIL, and LOAD PWR ON is from lowest to highest node number, with HMs first. Although HMs must be loaded first for a shut down system to be restored, a Load Configuration file can specify any number of nodes to be loaded in any order you choose.

The Load Configuration file can be configured to load the Universal (UP) or the Operator (OP) personality for different nodes in the same load.

System Status display loading operations load from the network only. Loading from cartridges must be done from the node status displays.

Example

Figure 2 shows a line of text in the text editor to be saved as a LOAD_Cnn.LD file. When saved into the &ASY directory, this configuration file will invoke the following loading sequence when the **LOAD CONFIG** target is selected and [ENTER] is pressed:

- US01 will load with the Universal personality, then
- AMs 20 and 19 will load, in that order.

Figure 2 Example Load Configuration File

```
UP01 20 19
```

Procedure

Perform the following steps to build and execute a Load Configuration file.

| Step | Action |
|------|--|
| 1 | Call up the Command Processor from the Engineering Main Menu. |
| 2 | Using the ED command and a pathname of NET>&ASY>LOAD_Cnn.LD, create a LOAD_Cnn.LD file, where nn is the console number. |
| 3 | Use the Text Editor to enter node numbers and personalities. |
| 4 | Select F1 (CTRL-1) to exit. |
| 5 | Select F2 (CTRL-2) to save the file and exit the Text Editor. |
| 6 | From the System Status or the Console Status display, shut down your US. |
| 7 | The load file must reside in US memory. To bring the new load file into US memory, you must reload the station. To reload the US from the network with the Universal personality, press the [LOAD] button, press N and [ENTER], then at the prompt press U and [ENTER]. |
| 8 | When the System Status display appears, select the LOAD CONFIG target and press [ENTER] to test the Load Configuration file. |

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Creating a Load Configuration File, Continued

Loading states

If a node included in the configuration file is not in a compatible loading state (if it is already loaded, for example), its node number and the status message **UNABLE TO LOAD -> INCOMPATIBLE STATE** will appear in the Load Order/Status window. The node will not load, but other nodes in the load will continue loading (unless the incompatible node is the primary HM).

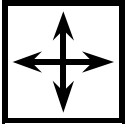
X-Layer nodes

Nodes in the X-layer autoboot once the load is initiated, so it makes sense to position those nodes at the beginning of the Load Configuration sequence. Each X-layer node is quickly initiated and the loading sequence continues until it comes to a non-X-layer node in the configuration file. The non-X-layer node must be loaded by the system, which has to load the remaining non-X-layer nodes one at a time. Meanwhile, the X-layer nodes can be up and running.

If the load configuration file does not exist

If the load file does not exist for a console, the **LOAD CONFIG** target displays every node configured in the NCF in the load order/status window.

Directions



DIRECTIONS—This is the end of the study material for this course module.

At this time, do the lab exercise named “Configure Easy Reload File” (document number L5430L), located immediately following this course module. Discuss questions concerning the study material or lab exercise with a colleague or your course manager.

After completing the lab exercise, if you are satisfied that you have achieved the objective of this course module, continue with the Student Proficiency Evaluation.

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