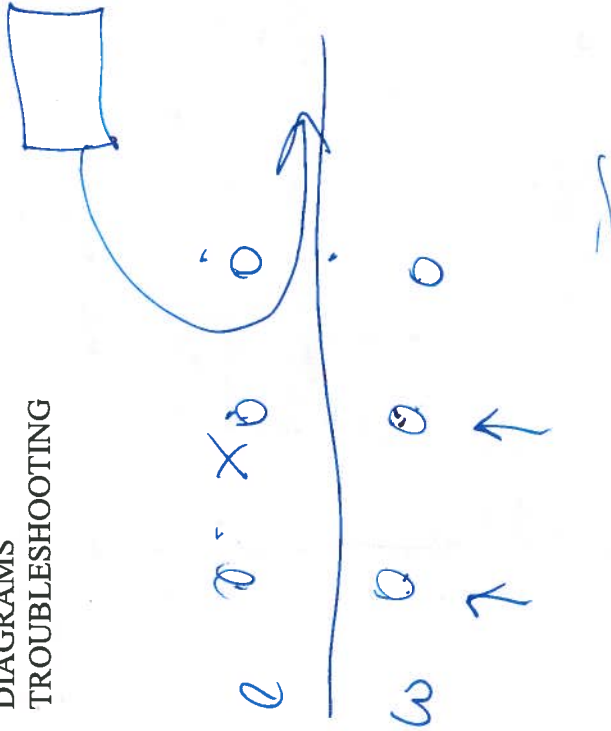
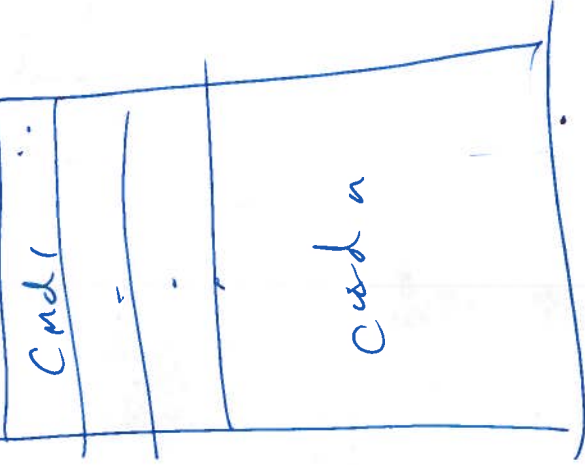
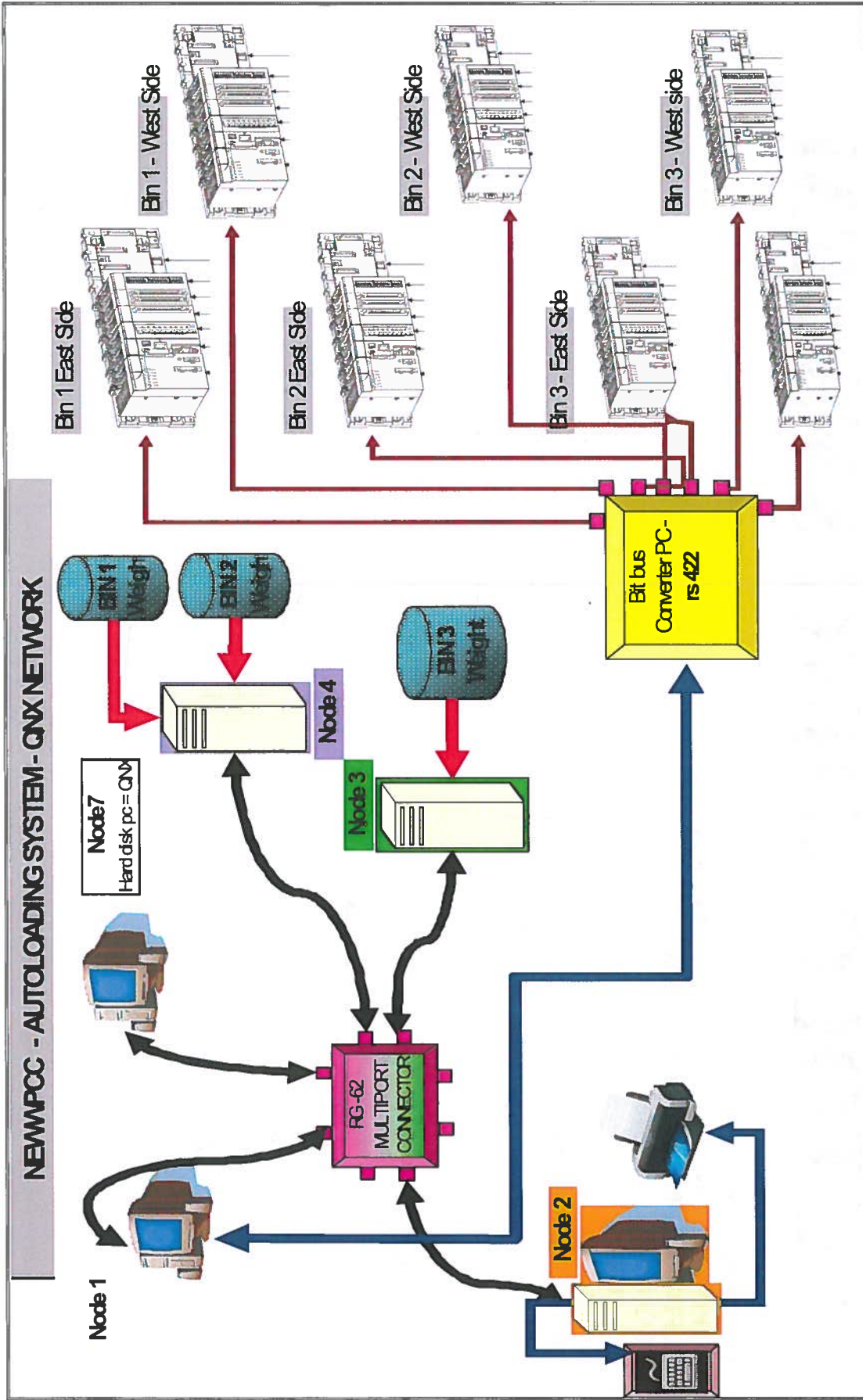


# AUTOLOADING SYSTEM

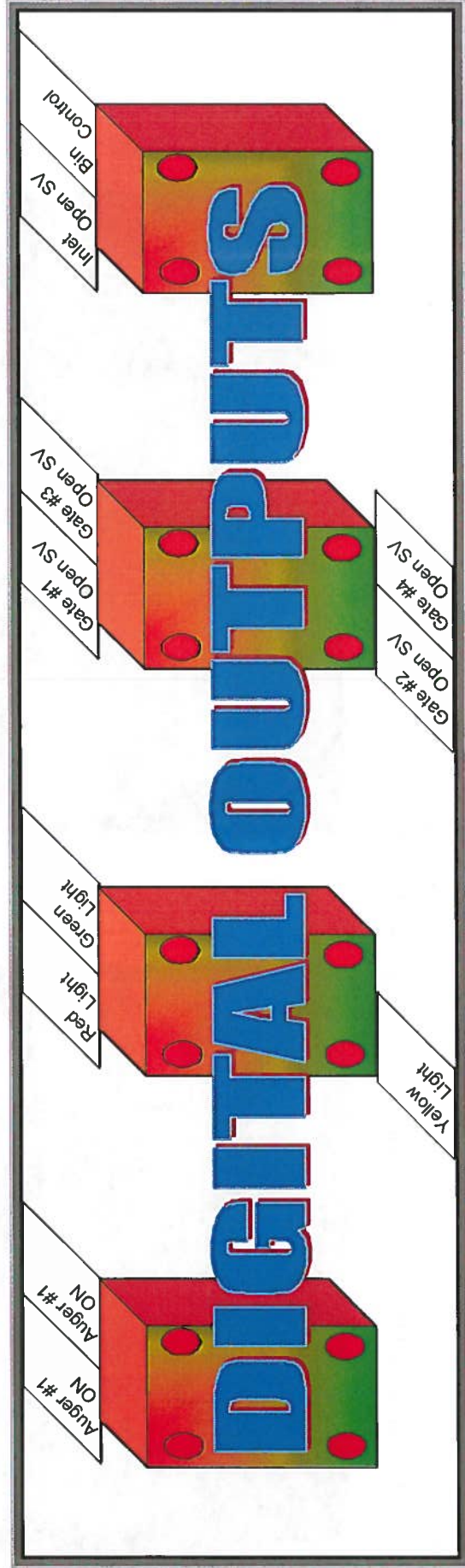
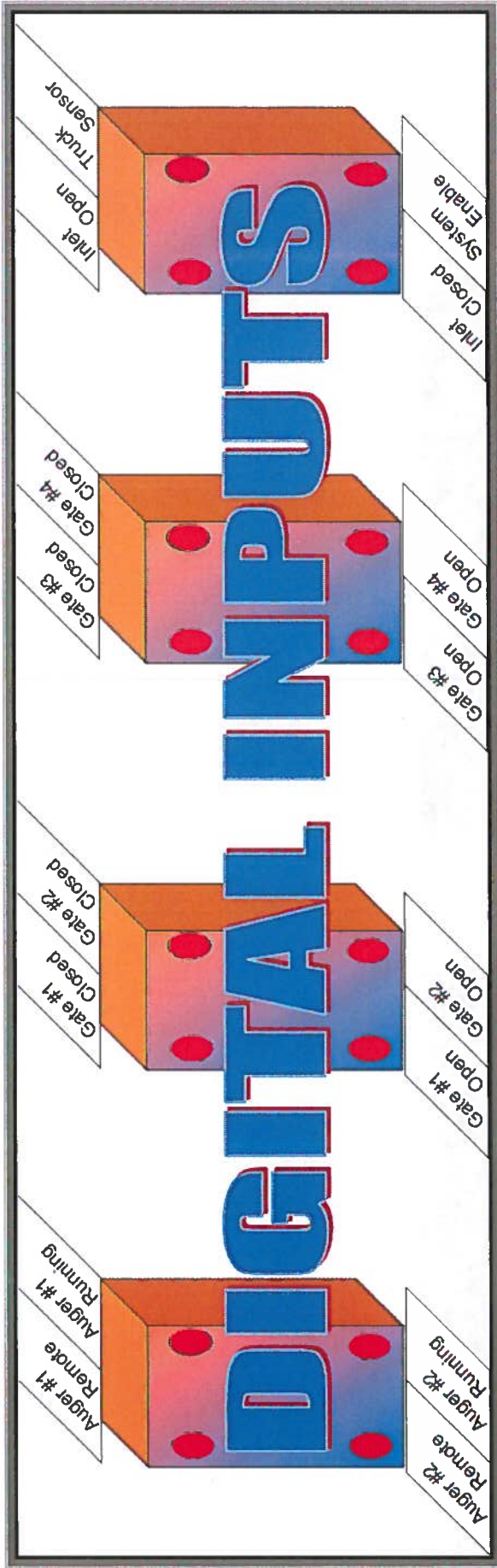
1. CONFIGURATION
2. HARDWARE / INPUTS / OUTPUTS / BREAKERS
3. SOFTWARE GENERAL COMMANDS
4. START PROCESS
5. C++ CODE
6. DIAGRAMS
7. TROUBLESHOOTING



AUTOMATIC UNLOADING SYSTEM - NEWWPCC



# INPUTS AND OUTPUTS ON THE BINARY CONTROLLER



**AUTOMATIC UNLOADING SYSTEM - NEWWPCC**

**DRIVER KEY PAD AND PRINTER RECEIPT.**

KEYPAD ASK TO THE OPERATOR USER NUMBER THEN ASK FOR AMOUNT TO LOAD ON THE TRUCK  
PRINTER PRINTS THE FINAL AMOUNT LOADED INSIDE THE TRUCK.



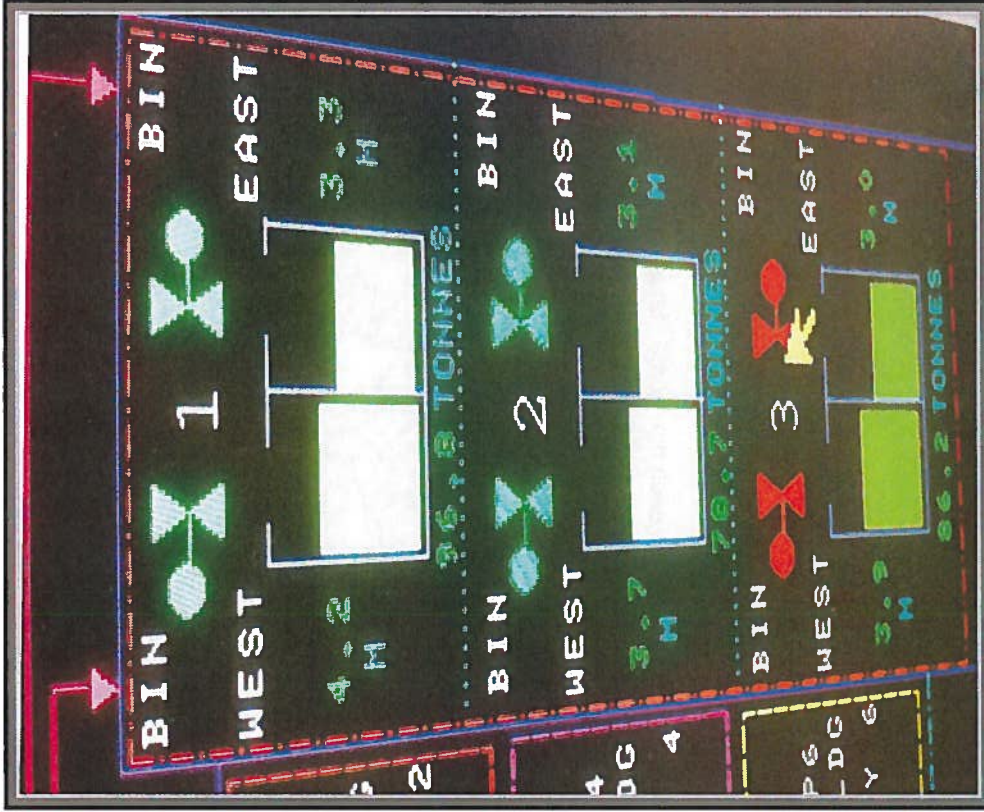
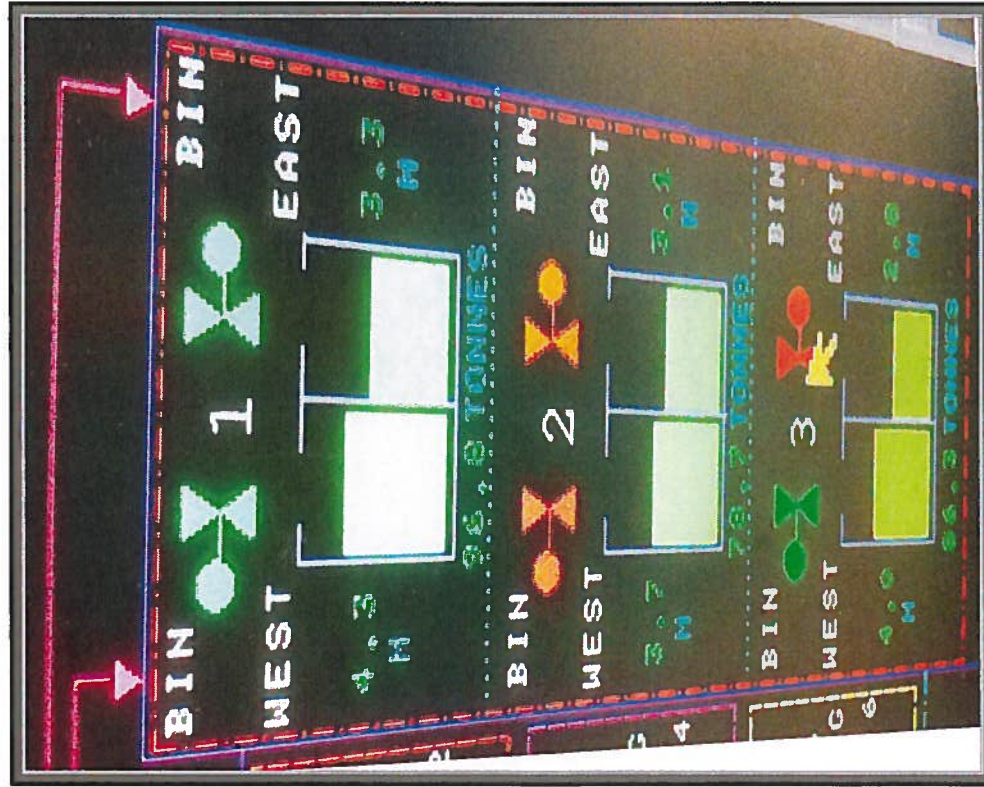
**AUTOMATIC UNLOADING SYSTEM - NEWWPCC**  
**BREAKERS FOR DIGITAL BIT INTERFACE**

**AUTOMATIC UNLOADING SYSTEM - NEWWPCC**

1		PS1-L1	BIN #1 - DC POWER SUPPLY BINARY CONTROLLER
2		DO1A-L1	COMMON TIE OUTPUT - BINARY CONTROLLER BIN #1
3		DO1B-L1	FIELD POWER FOR BIN#1
4		PS2-L1	BIN #2 - DC POWER SUPPLY BINARY CONTROLLER
5		DO2A-L1	COMMON TIE OUTPUT - BINARY CONTROLLER BIN #2
6		DO2B-L1	FIELD POWER FOR BIN#2
7		PS3-L1	BIN #3 - DC POWER SUPPLY BINARY CONTROLLER
8		DO3A-L1	COMMON TIE OUTPUT - BINARY CONTROLLER BIN #3
9		DO3B-L1	FIELD POWER FOR BIN#3
10		PS4-L1	MISCELLANEOUS - DC POWER SUPPLY BINARY CONTROLLER
11		DO4A-L1	COMMON TIE OUTPUT - BINARY CONTROLLER MISCELLANEOUS
12		XZ7A-L1	PROMAC INSULATOR BIN#1 WEIGHT
13		XZ7B-L1	PROMAC INSULATOR BIN#2 WEIGHT
14		XZ7C-L1	PROMAC INSULATOR BIN#3 WEIGHT
15		1A - CH	TO TB1A - 35 - TRUCK SENSOR
16		1B - CH	TO TB1B - 35 - TRUCK SENSOR
17		2A - CH	TO TB2A - 35 - TRUCK SENSOR
18		2B - CH	TO TB2B - 35 - TRUCK SENSOR
19		3A - CH	TO TB3A - 35 - TRUCK SENSOR
20		3B - CH	TO TB3B - 35 - TRUCK SENSOR
21		M - CH	TO TB4A - 35 - TRUCK SENSOR
22		S - CH	TO TB4B - 35 - TRUCK SENSOR
23		A - CH	TB1A - 42 MILLTRONICS W 411 - W 461
24		B - CH	TRUCK TRAFIC LIGHTS
25		C - CH	BIN WEIGHT SCALES DIGITIZERS
26		D - CH	PANIC BUTTON CIRCUIT
27		E - CH	SERIAL GATEWAY BY DIGITIZERS AND PRINTER OUTLET & LIGH
28		F - CH	TB1A -47 NORTH PEDESTAL
29		G - CH	TB1A -48 SOUTH PEDESTAL
30		OUTLET	LIGHT AND OUTLET IN CONTROL PANEL

AUTOMATIC UNLOADING SYSTEM - NEWWPCC

DCS SCREEN SHOTS ABOUT LEVEL OF THE BINS AND OPERATION



# AUTOMATIC UNLOADING SYSTEM - NEWWPCC

## QNX COMMAND

- 1 Press Ctrl + Z
- 2 0 \$ ditto n=1 +k
- 3 0 \$ ditto n=2 + k  
reboot.486

## Description

Access the Computer screen Prompt

Access main server and enable keyboard  
Need to be on Node 1 - then reboot all network sequentially

```
node version mem(k) tasks
1 3.21 atp 8980/15999 221/254
2 3.21 atp 15501/15999 248/254
3 3.21 atp 15543/16888 248/254
4 3.21 atp 7169/8864 242/254
7* 3.21 atp 16854/16888 236/254

Totals: -----
          72.1 Mbytes RAM
```

- 4 ls/ cmds
- 5 tellb

QNX commands list  
Operation Bin Commands such lock / unlock / display weight on each bin / force status / force outputs.

```
REMOTE PRESENDE SOLUTIONS
usage: tellb force <binno>          Apr 25 18:11:08 pm
tellb tempforce <binno> - with 120 sec delay before force 0
tellb noforce          or tellb force 0
tellb lock <hopperno>*
tellb unlock <hopperno>*
tellb threshold <tonnes> <hopperno>*
tellb dump <binno>
tellb request
tellb done <hopperno>
tellb show f display autobump screen on current console )
tellb weight <binno> - read the exact current weight
tellb wt <binno> - same as 'tellb weight'
tellb datebrds
tellb listboards
tellb hints
tellb dumperror
tellb dumperbin
tellb testticket
tellb start_no
tellb start_yes
tellb logins
tellb status
tellb help

note: will show all the weights if binno is omitted
- edit /datebrds.doc ***NEW command***
- list board address' ***NEW command***
- show current bin wts ***NEW command***
- show the steps to cleanup on an abort.
- clear the busy flag for all 3 bins
- print a ticket with date gg/12/01
- sys_init.3 will stop before unloading started
- sys_init.3 will start all the unloading stuff
- list all the user control logins. bin1, etc.
- Is all Ok or is the system down
```

- 6 ls
- 7 tellb force <bin #>

list files on the directory  
Force bin



**AUTOMATIC UNLOADING SYSTEM - NEWWPCC**

- 8 tellb tempforce <bin#> Temporary force 120 seconds then bit come back to unforce status
- 9 tellb noforce No force bin
- 10 tellb lock 1, 2, 3, 4, 5, 6 Bin lock
- 11 tellb unlock 1,2,3,4,5,6, Bin unlock
- 12 tellb dump <bin#> Dump commands shows all the data status



- 13 tellb binwts
  - 14 tellb dumperror
  - 15 tellb status
  - 16 0 \$ bye finish session
- Login XXXX -- -- Need to be required and approved by PCG WWW.

**Troubleshooting Procedures:**

**1) Reset Binary controller.**

Open electrical cabinet where the binary controller is located.  
 Open the fuses holder #1, # 4, #7, #10. Then close the fuse holders.

**2) Bin Weight Scales**

Use the command tellb binwts  
 Check weight bin #1 and weight bin #2 are connected to serial port computer Node 4.  
 Check weight bin#3 is connected to serial port computer Node 3.  
 If any case the weight display digitizers have different values to the show on QNX Auto loading System check cables on the Computer Node 4 or computer Node 3.  
 Then restart the system using command reboot.486

**AUTOMATIC UNLOADING SYSTEM - NEWWPCC**

**Short list of Additional commands for QNX**

<b>DOS</b>	<b>QNX Command</b>	<b>DOS</b>	<b>QNX Command</b>	<b>DOS</b>	<b>QNX Command</b>
attrib	ls -l, chmod, and ls -a	print	lpr	find	grep -i
cacls	ls -l	query	tsk	findstr	grep
call <i>script</i>	ksh <i>script</i>	rem	#	format	fdformat and dinit
chdir	cd - ksh	rename	mv	help	use
cls	clear	replace	cp -x	logman	tracelogger
cmd	ksh	runas	su	lpq	lprq
command	ksh	schtasks	crontab	lpr	lpr
comp	cmp or diff	shutdown	shutdown	type	cat
copy	cp	sort	sort	ver	uname -a
date	date - rtc .	taskkill	kill or slay	xcopy	cp or pax
del	rm	tasklist	sin, pidin, and ps	md	mkdir
dir	ls	time	date and rtc	mode	stty
erase	rm	tracert	tracerprinter	move	mv
diskpart	fdisk	tracert	traceroute	path	echo \$PATH
fc	cmp or diff				