

# Memorandum

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To: Deepika Nagaraj Mike Lambeth

cc: Michael Lacasse Dave Schmitt Neil Horner Tony Kerr

Ralph Groves Michael Reynolds Matt Morgan

From: John Effland

**Date:** 2008-06-10

**Revs:** 1.0 2008-04-23 jee Initial

2.0 2008-04-24 jee Added input for initial screen, device selection, changed status screen,

and removed Add Event screen

3.1 2008-06-10 jee Updated to align with current Preamp Screen design

**Subject:** Internet Browser Screens to Manage Band 6 Preamp Construction

### 1. Introduction

This memo provides updated screens for the browser-based design to manage Band 6 preamps, and attempts to consolidate requirements into a single document, because there are too many e-mails with suggested design enhancements which render it difficult to know exactly what is being designed.

The memo is also written in response to Deepika's latest e-mail of the proposed design, dated Monday, June 09, 2008 2:15 PM, which discussed her latest Internet browser screen, <u>Figure 1</u>. Documents describing previous design versions are available from hyperlinks in the above Rev table.

Screen designs presented here incorporate the fields from tables defined in Ver. 2.4 of the database schema, reproduced in <u>Figure 5</u>.

Finally, note that it is important to distinguish between the preamp status screen, proposed and outlined in <u>Figure 2</u>, and the Add/Modify screens, shown in <u>Figure 3</u>.

#### 1.1 Preamp Status Screen

The proposed preamp status screen of Figure 2 includes the following features:

- 1. Selection of preamp of interest by selecting the serial number from a select box.
- 2. Modification of attributes of the selected preamp by pressing the Modify button.
- 3. Selecting the mixer to which this preamp attaches using standard nomenclature:

Part of Mixer-preamp 155: 235 /133:17

where the mating mixer screen is obtained from the 155 hyperlink, and the matched preamp screen from the 133 hyperlink. If no such pairing exists, then the hyperlink is not present.

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- 4. Warm and cold measurement data are available by selecting the appropriate hyperlinks. Note that old measurement data are still available by selecting the appropriate hyperlink in the Events table located at the bottom of the status screen.
- 5. The HFET wafer and chip parameters are available from the table at the bottom of the screen.
- 6. The notes table at the bottom of the screen contains notes (entered using the Add/Modify screen) and I have included an example set from our latest mixer shipment to ACC.

Note that no changes can be made to any entries from the status screen. The Modify button located at the top of the screen must be pressed to add or change information, as described in the next section.

## 1.2 Preamp Add/Modify Screen

Additions and changes to preamp information occur from this screen, shown in <u>Figure 3</u>. The all-important Update Record button is located at the top of the screen. This screen has the following features:

- 1. Removing a preamp, either from a mixer or from a matched pair, is accomplished by pressing the Remove Preamp button, which automatically records the date of removal. The user should probably be forced to enter notes about what is removed.
- 2. Entering either warm or cold measurement data is accomplished by updating the next two lines, and pressing the Select File button allows the user to choose the Excel data file and path.
- 3. Entering or modifying HFET wafer data *etc*. is problematical with this approach, because the program won't know if the user has entered any changes unless all the boxes are either blank or already contain the relevant information.
- 4. Location information about the preamp is entered using the Notes section at the bottom of the screen.

# 1.3 Common Screen Elements

The Bugs/Enhancements button loads the software bug tracking web page, which will soon be upgraded to allow requests to enhance software in addition to tracking bugs. A Help button loads an HTML help file.

Table 1 and Figure 4 describe the common drop-down box located at the top of each page.

Last Saved: Tue 2008-06-10 17:17:00

🎒 http://www.cv.nrao.edu/php-internal/ntc/Tasks/PreAmp/AddNew.php - Microsoft Internet Explorer File Edit View Favorites Tools Help **€** - **#** G - D - R 2 6 🕏 🕫 🗟 Address a http://www.cv.nrao.edu/php-internal/ntc/Tasks/PreAmp/AddNew.php ▼ 🕞 Go **Preamps** Select. Help Time Stamp: 2008-06-10 10:59:57 \*Serial Number: Time Stamp Removed: © Yes Time-Stamp Removed: \*Notes: Warm Data On: Link: Browse.. Warm Data By: MRL 💌 Link: Cold Data By: MRL Cold Data On: Browse.. Assembly Completed on: Mixer Removed on: Machined By: MRL 💌 Potted: Yes 💌 First Stage Devices: Gel Pack: NRAO-001 Cell: 1 💌 A 💌 Epoxy A: Ероху В: Second Stage Devices: Cell: 1 Y A Y Gel Pack: NRAO-006 Epoxy B: Epoxy A: Third Stage Devices: Gel Pack: MAP-100-1448A-B Cell: 1 V D V Ероху В: Epoxy A: Note: Fields with \* must be filled. Add Record Cancel Trusted sites 🦺 start 🥖 W 🗷 🗀 📧 😿 👔 RE: Attp... Picr. Add.. ☑ RE: 🔣 Ban ⟨ □ □ → 4:21 PM

Figure 1: Proposed Update Screen from Nagaraj, dated Monday, June 09, 2008 2:15 PM

**Preamps** Select.. Modify Bugs/Enhancements Help 235 2008-04-24 09:45 Desiccator Part of Mixer-preamp 155: 235 /133:17 Serial # Location: 2008-04-24 09:45 ΜL 2008-04-24 09:45 ML Warm Data on: Cold Data on: Stage Gel-Pack Cell **Epoxy A Epoxy B** 1st NRAO-001 A10 PB012345 PB135673 2nd NRAO-006 D4 PB112345 PB112345 MAP-100-2006 3rd J2 PB112345 PB112344 09-A **Events** Date<sup>1</sup> Location Who Data **Notes** Preamp installed in mixer block 2008-06-11 23:22 Desiccator ML Link Preamp matched with another 2008-06-11 23:22 Desiccator ML Link This preamp was measured cold today 2008-06-11 23:22 ATS ML Link but the ATS has temperature problems hla hla hla Warm tested 2008-06-11 23:22 Mxr Assm Lab ML Active devices installed 2008-06-11 23:22 | Mxr Assm Lab ML Blocks received from ACC - passive components inserted RG 2008-06-11 23:22 | Mxr Assm Lab Blocks returned to ACC 2008-06-11 23:22 ACC RG Screw holes cleaned out 2008-06-11 23:22 | Mxr Assm Lab MR ACC returned block, can't fit screws in lids 2008-06-11 23:22 | Mxr Assm Lab MLPreamps shipped to ACC 2008-06-11 23:22 ACC RG RG 2008-06-11 23:22 | Mxr Assm Lab Blocks given to Gerry today to be plated

Figure 2: Proposed Preamp Status Screen

Last Saved: Tue 2008-06-10 17:17:00

<sup>&</sup>lt;sup>1</sup> Events are ordered chronologically with most recent at top.

2008-06-11 23:22	Mxr Assm Lab	RG	Blocks cleaned for plating
2008-06-11 23:22	Mxr Assm Lab	RG	Blocks received from shop.

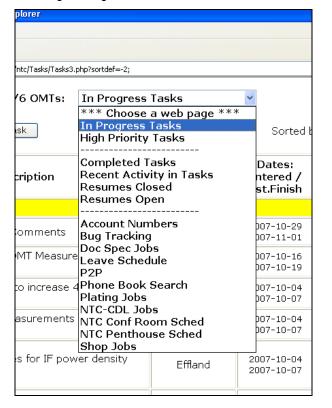
**Add/ Modify** Update Record Select.. **Preamps** 235 Remove Preamp Serial #  $\mathsf{ML}$ 2008-04-24 09:45 Select File Warm data by: Warm data on: 2008-04-24 09:45 MLSelect File Cold data by: Cold data on: Stage Gel-Pack Cell Ероху А Ероху В NRAO-001 **T** -1A 🔽 1st 1A\_ -2nd NRAO-001 1 3rd NRAO-001 • 1A 🔻

Figure 3: Add / Modify Preamp Screen

Enter Notes					
Location	Who	Data	Notes		
ACC	ML <u>•</u>	<u>Link</u>	Type notes here		

Table 1: Items in View All Drop-Down Screen				
Item Text	Action when selectedlinks to			
View All	list all preamps in database			
View New	list all preamps with no entries			
	divider			
Account Nums	Band 6 account number web page			
Bugs	Software bug tracking web page			
Leave Schedule	NTC leave schedule			
Phone Book	NRAO phone book			
Plating Jobs	NTC Plating job listing			
NTC Tasks	NTC task web page			
NTC Conf Room Sched	Conference room schedule			
NTC Penthouse Sched	Penthouse schedule			
Tasks Database	Band 6 task database web page			
Shop Jobs	NTC machine shop job listing			

Figure 4: Sample drop-down box from Band 6 Tasks Software



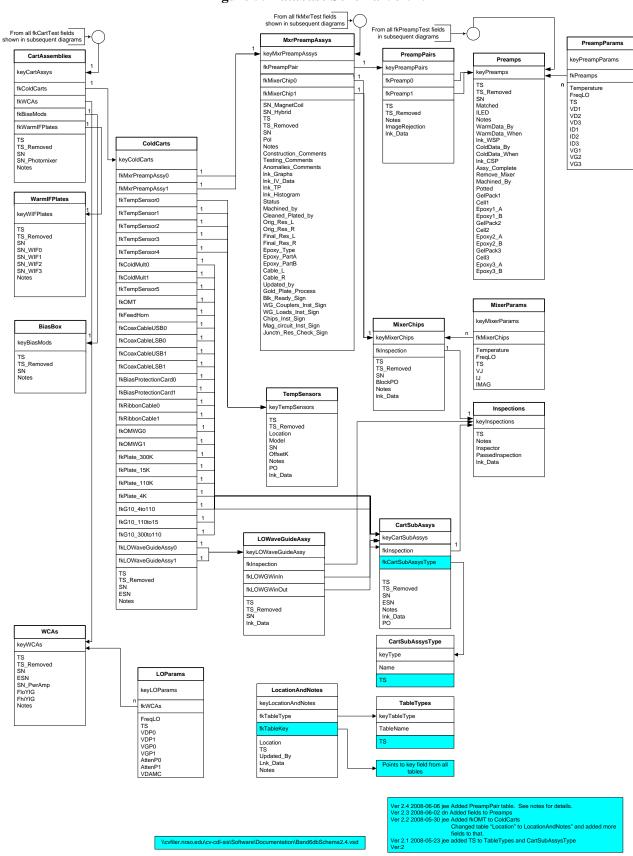


Figure 5: Database Schema Ver. 2.4