

SELVA Meeting 08/26/2014

Attendees: Jerzy Nogiec, Roger Nehring, Sergey Kotelnikov, Andrzej Makulski , Kelley Trombly-Freytag, Dana Walbridge, Fred Lewis

• Project Status

- **The highest priority: preparations for the winding test.**
- The SELVA Winding Test Checklist was reviewed. Discussed necessity of items, some removed, and some added.
- Phase detector is needed – Fred will order it.
- Switch over to a new safety system is planned for the following weekend. The work will be done on a Saturday – should be ready by the following Monday.
- 60A driver card (converted) was tested; working w/30A personality card, not with 60A personality card. The 60A personality card is being adjusted. Would like to test the card in the machine, also the card on order.
- Check there is tension relief for the cables ending at the interface box. Will be checked during the weekend work.
- Need to order a UPS for computer and find place for it. 1500 size will be fine. It can be placed outside the machine, maybe next to the power cabinet. The capability of a software trigger for graceful program shutdown would be preferable.
- Load power stabilization circuit was put in place and needs to be tested.

• Meeting Topics

- 1) Action items from the previous week
- 2) Status of the preparations for the winding test
- 3) The load cells power stabilization improvement
- 4) Plan to switch over to the new safety system
- 5) Status of requisitions
- 6) Safety, ideas, comments, etc. (all)

• Safety

- Everybody make sure to sign the modified HA in IB3.

• Problems

- Requisitions were delayed.

- Action Items

Jim Rife, Rick Smith, etc.

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Fred Nobrega

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Fred Lewis

	Switch over to the new ETS system	Planned for 09/06/14	7/29/2014
	Work on 2 nd interface board, which will be the production model		7/15/2014
	Order UPS		8/26/14
	Order missing phase detector		8/26/14

Lidija

	Reinstall winch	cancelled	7/15/2014
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Andrzej

	Add comments to the FPGA I/O test program	Describe all I/O channels In progress 7/15	7/1/2014
	Coordinating adjusting speed and offset for all motors	Investigate the control of acceleration and speed for bridge.	7/15/2014
	Work on adjusting the tension driver	Test the possibility to adjust the integration term in the driver personality card for tension	8/5/2014
	Review electrical drawings		8/19/14
	Test load cell power stabilizer		8/26/14
	Test modified driver		8/26/14
	Propose cables tension relief solution		8/26/14

Jerzy

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Roger

	Document reel up/down algorithm	In progress	7/23/2014
	Test motion control of the tension motor.	Re-assigned	6/3/2014

Sergey

	Create note on naming conventions on I/O channels	In progress	4/29/2014
	Put reel program into FPGA		8/26/14
	Test the reel program		8/26/14
	Review Mandrel Test Plan		7/8/14
	Work on boom calibration and motion limits		8/26/14

Dana

	Work on replacement collision sensors for the boom.	Contact the supplier and discuss our needs.	7/29/14
	Install new tubing	Dana will install tubing on the boom, starting on Friday if he is here. Postponed 8/5/14 until the decision to buy new bumper sensors is made. suspended	7/15/2014
	Mandrel test plan	7/15: waiting on Sergey	6/10/14
	Level Mandrel	Check if we need another surface	8/5/2014

Kelley

	Get a spreadsheet of the results of testing I/O signals.	Put in SELVA wiki All I/O signals not yet defined - doc not complete	Suspended 5/20/2014
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Everyone

	Document: Machine Start checklist	Needs input from Andrzej	7/15/2014
	Document: Interlock list	Needs review	7/15/2014
	Document: Permissives	Needs review	7/15/2014

• Completed Action Items

	Sergey	Work on synchronizing the mandrel and bridge motors		8/26/14
	Sergey	Implement the new tension control algorithm		8/26/14
	Sergey	Add the reel and tension motor control to the motor test and PID	Separate test program	8/26/14

	tuning program.		
Jerzy	Tension control	Investigate a fuzzy logic control for tension – suspended 8/19/14 – investigate the feed forward and torque based control	8/26/14
Andrzej	Try to repair the draft card		8/26/14
Fred	Install the load cells power stabilizer circuit		8/26/14
Fred	Review the requisition for a new driver – get the newest version they have of 242	7/15: back in queue after driver hold	8/26/14
Fred	Ensure we have replacement encoders for future use	7/15 Will be ordered: an X drive a/e	8/26/14
Rick	Lower the Bridge to the tracks/rails.		8/20/14
Jerzy	Create a model of the tension		8/26/14