

LHC: FSG Yoke laminations with oxidation

Here below is reported the list of all the batches of FSG laminations received from 26/04/06 on showing severe oxidation. As already done in the past the lamination were stacked into pack and the cleaning operation was done at the latest stage during the assembling operation for the half yoke preparation, before the assembly into the cold mass

The batches of laminations coming from FSG with oxidation were:

FSG 0485,	FSG 0499,
FSG 0494,	FSG 0498,
FSG 0497,	FSG 0522,
FSG 0500,	FSG 0523,
FSG 0495,	FSG 0526.
FSG 0496,	

Lamination delivery

The following photos have been taken at the lamination delivery in Ormet and represents the status of laminations before the stacking of the packs.



FSG 0497

FSG 0495







FSG 0496

FSG 0499



FSG 0500

FSG0522





FSG 0498

FSG0523







Lamination cleaning

The following photos have been taken in ASG before or during the cleaning; they show the exact situation of the oxidation to be removed. In some case it covers almost the 100% of the outer surface of the yoke pack; the same is on the others packs of the same batch.



Batch FSG 0495





Batch FSG 0494



Batch FSG 0500

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ASG/UP3/6.474/GD 01/06/2006



Batch FSG 0522



Batch FSG 0522 (details)



Summary

In the following table all the extra works hours, necessary in order to properly clean the yoke laminations are reported as well as the status of the laminations.

Batch id.	Extra hours	Status
FSG 0494	30	Cleaned and assembled into cold mass CM2356
FSG 0495	28	Cleaned and assembled into cold mass CM2355
FSG 0500	26	Cleaned and assembled into cold mass CM2354
FSG 0522	42	Cleaned and assembled into next mass
FSG 0485	16	Cleaned and assembled into cold mass CM2344
FSG 0496		To be stacked
FSG 0497	20	Cleaned and assembled into cold mass CM2346
FSG 0498		To be stacked
FSG 0499		To be stacked
FSG 0523		To be stacked
FSG 0526		To be stacked
Total	162	

Conclusion

The time necessary about lamination cleaning depends on the level of oxidation; as shown in the previous photos the batch FSG 0522 took a lot of extra hours due to the very hard oxidation while on batches FSG0485 and FSG0497 the cleaning was easier. All the batches involved have the id. number around 500.

The other batches will be cleaned and the previous list will be updated.