

EUROPEAN SPALLATION SOURCE

WP2 Target System

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www.europeanspallationsource.se

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Outline



- Highlights
- Schedule performance
- Near-term plans
- Risks and issues
- Concluding remarks

Highlights



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WP2 Target System

Target Wheel Drive & Shaft Target Primary Cooling System

- Preliminary Design locked!!
- Interface Control Documents (ICD) approved.....
- Target Wheel Drive & Shaft Design confirmed by external Review Team
- Target WD&S the plan is to bring forward the CDR regarding spallation material and cassette to extend the manufacturing time.
- Collaboration with UJF regarding Target Primary Cooling System
- Second attempt together with UJF to find suitable supplier for the Helium Circulator. Positive preliminary results

Schedule Performance (1 of 3)



Variance Analysis:

- Cumulative SV of -0.37 M€ (SPI = 0.86) is primarily due to:
 - Delays in WP2 caused by lack of in-kind partner for Target He Cooling System
 - Prolonged ETHEL time schedule

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Schedule Performance (2 of 3) TIK 2.1 Target Wheel Drive & Shaft



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Schedule Performance (3 of 3) TIK 2.2 Target Helium Cooling System



ID	Name	Planned Date	Current Forecast or Actual	Delay (W.Days)
A78500	In-Kind contract signed	2014-10-14	2015-12-30	>1 year
A54230	CDR	2017-04-01	2017-04-01	0
A60780	Award contract*	2017-10-01	2017-10-01	0
A54310	Delivered/Installed Target Helium Cooling System	2018-11-01	2018-11-01	0

* Procurement of Blowers, Heat Exchangers and Filter needs to be handled in front of "Awarded contract"

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Near Term Plans (next 3 months)

- Final Safety Classification (Hazard Analysis ready, Inventory in Becquerel ready, conversion factors Bq-> Sv missing)
- Perform Kick Off Meeting with In Kind Partner Target Primary Cooling System
- Start Final design of Primary Cooling System and procurement of Helium Circulator
- Preparation for CDR Spallation Material and cassette
- Target Wheel start final CAD modeling
- Target Shaft ready for final CAD modeling
- Target Drive Unit public advertising

Risks and Issues



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- We will not get the conversion factors in time and the final safety classification is delayed
- Target Wheel welding experiments fails. We can't fulfill the tolerance requirements

Concluding Remarks



• Preliminary Design is locked. All changes must be evaluated together with the WPM and WUL if there is a need for writing CR.