



Science & Technology
Facilities Council

UK Research
and Innovation

AGATA Monitoring and Inspection

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Some history



Clover Ge Channel Setup

Current Channel: 0 Current Segment: A Enable:

Act on Channels? Current All Select Act on Segments? Current All Select

TFA Gain: Low High Pileup & Anti-Compton: Mark Reject

SS	RO	Address	Threshold
20 MeV: <input type="checkbox"/>	<input type="checkbox"/>		0 0 <input type="text" value="65535"/>
4 MeV: <input type="checkbox"/>	<input type="checkbox"/>		0 0 <input type="text" value="65535"/>
Fast Trigger: <input type="checkbox"/>	<input type="checkbox"/>		0 0 <input type="text" value="65535"/>
Cross Over: <input type="checkbox"/>	<input type="checkbox"/>		0 0 <input type="text" value="65535"/>

CFD Width (ns): 0.0 0

CFD Delay (ns): 0.0 0

Fast Trigger Sample (ns): 0 0

Validation Sample (ns): 0 0

LT Watchdog Timeout (ns): 0 0

PDS Gate (ns): 0 0

CFD Threshold (keV): 0 0

Pole Zero: 0 0

Analogue Inspection 1:

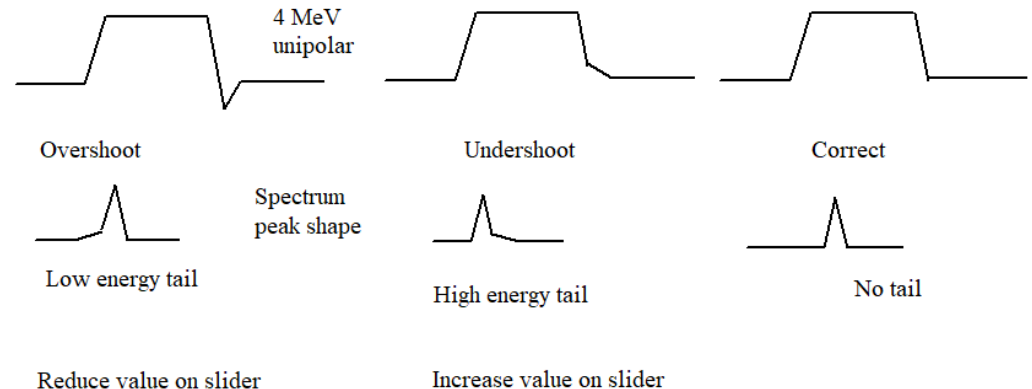
Analogue Inspection 2:

Digital Inspection 1:

Digital Inspection 2:

Voltage Inspection:

Redisplay step + inspection By Parameter Engineering Help



New UK AGATA Grant Bid

- SOI (outline) approved
- 2nd stage of review almost complete
- If successful then detailed grant can be submitted.
- UK involvement technically is in diagnostics

Typical Requirements

- What we need to see
 - Visualisation of input signals
 - Visualisation of MWD algorithm intermediate results (parameter adjustment)
 - Timing of signals from ancillary detectors
 - Timing of trigger signals
 - Digital diagnostics for key GTS signals, readout signals
- All accessible remotely, selected by software
- Compare channel- channel as well as within 1 channel
- All with option to show buses as “analogue”
- User-friendly GUI