Outline for MMFE-8 Preliminary Specification

Mechanical considerations

Cooling (we will not cover this in the review)

Power

Demonstrator power

Production power (current baseline w U. Mich. (Dan Amedei))

Grounding plan

Inputs

Zebra considerations

Input protection

Outputs

Output to L1DDC

Data format

Signal level

Output to ADDC

Data format

Signal level

Cable choice for L1DDC and ADDC

Ethernet output (Demonstrator)

Clocks

List of clocks and source

Configuration

Demonstrator configuration

Configuration via SCA

Control

Configuration, reset, DAQ, calibration, self-test

System monitoring

Using the SCA

Calibration (We will need help from George Iakovidis)

Using the SCA

Data-driven calibration schemes will not be covered in this review

Design considerations

Layout considerations

Testing

Environmental tests

Radiation tests (we will not cover this in the review)

Production bench testing

Cost, schedule, manpower (Only minimal information will be provided for this technical review)

Outstanding technical issues and risk assessment