



# Summary of plans to proceed to the PEP phase

# Introduction



- Plans covering the next phase of the SKA have been included in the documentation for all options under consideration apart from the SPF payloads and SPF receivers. Plans for these are needed at an early stage of the PEP phase.
- The remaining slides summarise the milestones for dish options and PAFs.

# Dish A: DVA1 type offset Gregorian



Task	End date
DVA1 preliminary design	Sept 2011
DVA1 detailed design	Aug 2012
DVA1 pre-fabrication	Mar 2012
DVA1 fabrication	Nov 2012
DVA1 single dish testing	Feb 2013
SKA dish definition phase	Q3 2012
SKA dish preliminary design	Q3 2013
SKA dish detailed design	Q3 2014

# Dish B: Chinese offset Gregorian



Task	End date
Primary design and feasibility study	2012.1
Final design of prototype	2012.4
Manufacture of prototype	2013.2
Test verification of prototype	2013.5
Design review and design changes	2013.8
Manufacture 2 <sup>nd</sup> prototype	2014.2
Test verification of 2 <sup>nd</sup> prototype	2014.4
Further design review and design change	2014.8
Mass production preparation	2015.12

# Dish C: Thermoplastic axi-symmetric



Task	End date
Build consortium	Q2 2012
Secure finance	Q2 2012
Pre-design structure and feed	Q4 2012
Small prototype assembly and integration	Q2 2013
Test and review	Q4 2013
Final design structure and feed	Q2 2014
Assemble and integrate full prototype	Q2 2015
Test and review	Q3 2015

# Dish D: Chinese axi-symmetric



Task	End date
Primary design and feasibility study	2012.1
Final design of prototype	2012.4
Manufacture of prototype	2013.2
Test verification of prototype	2013.5
Design review and design changes	2013.8
Manufacture 2 <sup>nd</sup> prototype	2014.1
Test verification of 2 <sup>nd</sup> prototype	2014.4
Further design review and design change	2014.8
Mass production preparation	2015.12

# Dish E: MeerKAT type offset Gregorian



Task	End date
Tender	Q1 2012
PDR	Q3 2012
Detail design	Q3 2013
Build and qualify 1 <sup>st</sup> MeerKAT dish	Q4 2013
MeerKAT antenna CDR	Q4 2013
Acceptance test MeerKAT antennas #2-20	Q3 2014

# Phased Array Feeds



Task	End date
Sign-off PAF parameters/basic architecture between SKA/PAF partners	Q1 2012
Design for SKA manufacture study 1	Q4 2012
CDR for SKA1 PAF(s) systems	Q1 2013
Build SKA1 PAF(s) systems prototypes	Q2 2013
2 <sup>nd</sup> CDR for SKA1 PAF(s) systems	Q3 2013
Build final SKA1 PAF(s) systems prototypes	Q1 2014
Integrate and test prototype 1 SKA PAF(s)	Q1 2014
Integrate and test final prototype SKA PAF(s)	Q3 2014
Review final prototype performance, submit to SKA1 build plan	Q3 2014
SKA1 PAF manufacturing plan, ready for build	Q4 2014





END