

# Tianlai Antennas Working Group

## Organization

### 11 June 2013

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Outline of Design Report for Beijing Meeting 15-19 July 2013

## Topic

## Who is responsible?

### Dish Antennas

- baseline is on-axis, 5-10 m diameter
- mechanical design
- current construction plans
- simulated beam patterns vs frequency

### Cylinder Antennas

- on-axis vs off-axis
- mechanical design for each case
- current construction plans
- simulated beam patterns vs frequency in each case
- simulated side lobes in each case

### Feeds

- baseline is four-square feed
- can we use this feed for both dishes and cylinders?
- simulated & measured beam patterns
- simulated impedance
- impedance matching to LNA
- are there other feeds we should consider?

### LNAs

- what is current design in China?
- has LNA been tested?
- has LNA been integrated with 4-square feed?