

Design Review notes

1/16/09

2pm



Design Review n...

Audio recording started: 1:48 PM Friday, January 16, 2009



Design Review n...

Audio recording started: 1:45 PM Friday, January 16, 2009

Presentation

Overall Feedback

Chance is using the data from the antennas

TEC, How do you interpolate that data, between 2 satellites??

time difference is key?

Any particular time difference aiming for?

each GPS has an atomic clock.

Slows the timing pulse ↑ TEC

12 satellites (how much stuff there?)

↓
○
Corona mass injection?

Spaceweather does not affect our antennas.

180 degree view of hemisphere

Radio reflective

Specs

GPS L1 23

GPS L2 18.3

UPS for Eng Spec.

Matlab availability.

Concept Selection

Mechanical for cover, birds.

Total & Rank classification

Mounting
Technique

Pictures would
be better

building on → much longer
platform cable.

Equilateral triangle - Does it have
to be, Distance??

Concept Selection Process Branch
Spelling

Selected Concept

Locations for Antenna II & III

Mortar is better

Is Gaten building this??

Math Calculation Sheet

on computer.

— include Bldg 76.

— calculation at different heights??

What height are we
measuring at.

3rd column for height.

Before Finalizing location, calculations

RIT Inn, Racquet Club.

Observatory has trees

Incubator =

NO TREES!

Ithaca / Cornell possible

Ithaca / Cornell possible

Concept spelling

Risk Items

Schedule . Fix Schedule.

Delete New task - 33.

CNIG — Can we use online data?

But no live feed.

Questions

1. Prototype the first mount
with just a pipe mount.

— 6 ft piece of pipe /

Stability.

— See above the wall.

maybe ($\geq 1/2$) thick wall PVC