



Redesign of the Visitor Center Solar Telescope

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Status: Draft

Contents

1	Introduction	2
1.1	Purpose	2
1.2	Scope	2
2	Related Documents and Drawings	2
2.1	Applicable Documents	2
2.2	Reference Documents	2
3	Heading 1	3
3.1	Heading 2	3
3.1.1	Heading 3	3
A	Appendix Title	3

1 Introduction

Located behind the Visitor Center at the Very Large Array (VLA) is a telescope that converts RF solar energy into a DC voltage through amplification. It was originally constructed in 2013 and is no longer functioning as of June 2023. Weathered components and lack of sufficient documentation to repair the telescope to its original state has warranted a redesign of the entire system to be more appealing to visitors and resistant to wear.

1.1 Purpose

1.2 Scope

The heart of the telescope is an X-band feed horn antenna originally used to receive Voyager transmissions at 8.4 GHz; this is to be unchanged in the redesign. Additionally, DC power is supplied through a +28VDC power supply located inside the visitor center in order to eliminate radio frequency interference (RFI) caused by AC power and switching power supplies.

2 Related Documents and Drawings

2.1 Applicable Documents

The following documents may not be directly referenced herein, but may provide necessary context or supporting material.

Ref. No.	Document Title	Rev/Doc. No.
AD01	Title 1	0001
AD02	Title 2	0002

2.2 Reference Documents

The following documents are referenced within this text:

Ref. No.	Document Title	Rev/Doc. No.
AD01	Title 1	0001
AD02	Title 2	0002

3 Heading 1

3.1 Heading 2

3.1.1 Heading 3

A Appendix Title

References