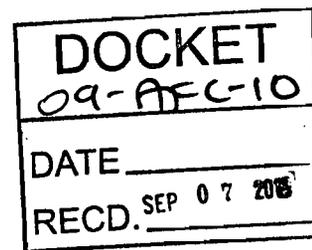


**From:** John Kessler  
**To:** Docket Optical System  
**Date:** 9/7/2010 11:27 PM  
**Subject:** Fwd: FW: Rice - Control Communications to Heliostats



Dear Docket Staff

Please docket this email to Rice Solar (09-AFC-10) and include the following phrase in the file name, "Applicant's description of heliostat power & control cables".

Thank you,  
John

John S. Kessler  
CEC - Project Manager  
Office: 916-654-4679  
Cell: 530-306-5920  
Fax: 916-654-4421

>>> Andrea Grenier <[Andrea@agrenier.com](mailto:Andrea@agrenier.com)> 8/18/2010 12:56 PM >>>  
John, let me know if this meets your needs. --Andrea

-----Original Message-----

From: Scott Kaminski [<mailto:Scott.Kaminski@solarreserve.com>]  
Sent: Wednesday, August 18, 2010 12:28 PM  
To: [Andrea@agrenier.com](mailto:Andrea@agrenier.com)  
Cc: 'Doug Davy'; Jeff Benoit  
Subject: RE: Rice - Control Communications to Heliostats

Andrea,

In answer to John's question, the power and control cables will be direct-bury cables in the field up to each individual heliostat unit. Electric power is distributed from medium voltage switchgear in the power block area via direct-bury cables to step-down transformers located throughout the heliostat field. Low voltage power is then sent via breaker panels and direct-bury cables centrally located in the field to service the individual heliostats.

Similarly, command and status signals are sent to the individual heliostats via direct-bury control cables from the Master Control System (MCS) located in the power block, and distributed to each unit through Heliostat Field Controllers (HFC's).

Depth of cable burial, as well as separation of power and control cables, will be dictated by code requirements and determined during the detailed engineering phase of the project.

I hope this sufficiently answers the questions - please let me know if further clarification is required.

Thanks,

Scott Kaminski  
Sr. Project Engineer  
SOLARRESERVE  
2425 Olympic Blvd. 500 East  
Santa Monica, CA 90404  
Cell: 1.310.663.6080  
Dir: 1.310.315.2218  
[www.SolarReserve.com](http://www.SolarReserve.com)

-----Original Message-----

From: Andrea Grenier [<mailto:Andrea@agrenier.com>]  
Sent: Wednesday, August 18, 2010 11:43 AM  
To: 'John Kessler'; Jeff Benoit  
Cc: 'Doug Davy'; Scott Kaminski  
Subject: RE: Rice - Control Communications to Heliostats

John, by cc: of this email, I am asking Scott Kaminski to check this out and get an answer back to you.

-----Original Message-----

From: John Kessler [<mailto:jkessler@energy.state.ca.us>]  
Sent: Wednesday, August 18, 2010 11:37 AM  
To: Andrea Grenier; Jeff Benoit  
Cc: Doug Davy  
Subject: Rice - Control Communications to Heliostats

Could you please briefly describe how control of the heliostats will be communicated from the controller? In other words, would this be via cable laid on the ground or buried?

Thank you,  
John

John S. Kessler  
CEC - Project Manager  
Office: 916-654-4679  
Cell: 530-306-5920  
Fax: 916-654-4421