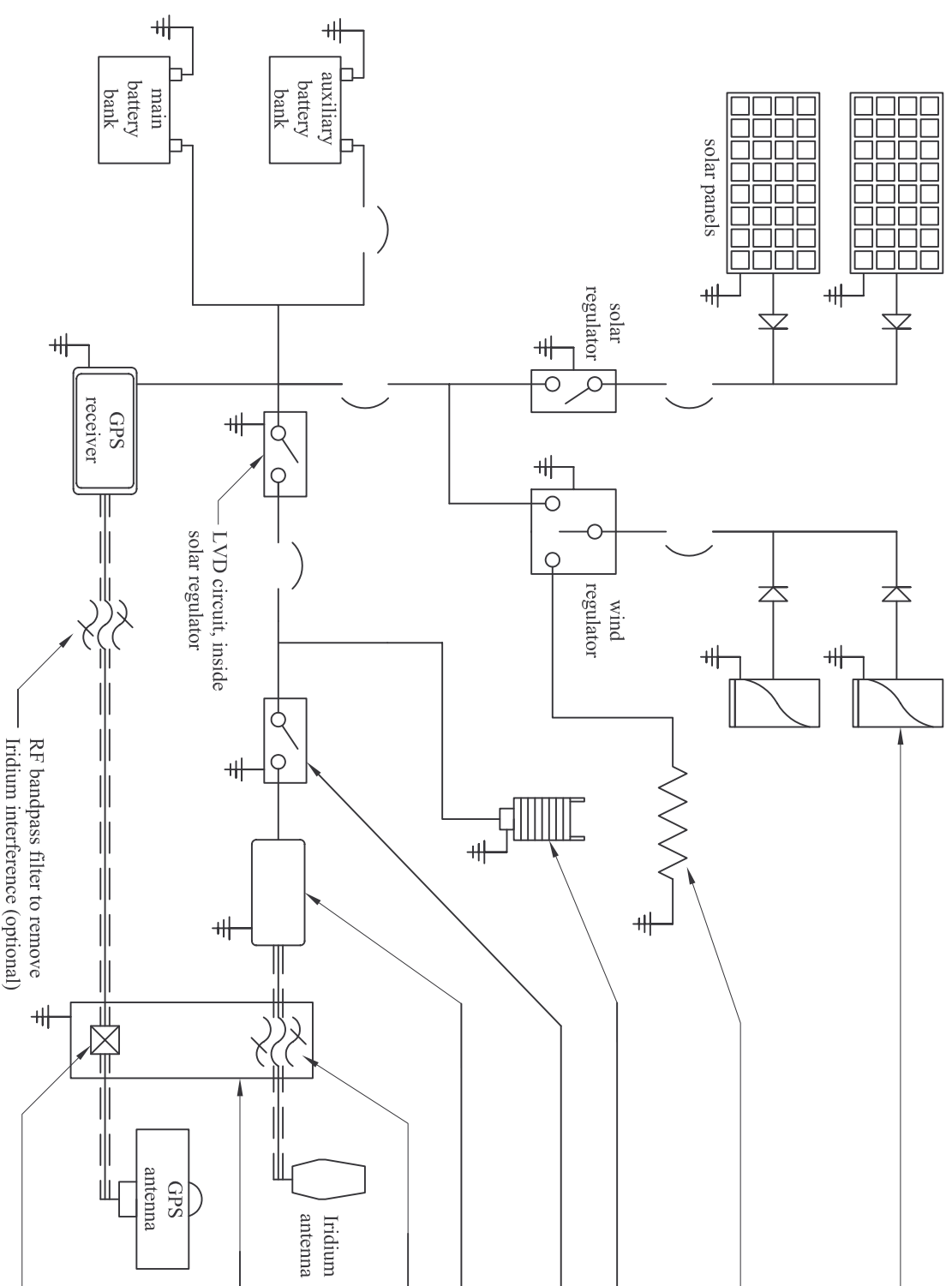


REV	Description	Date	Appr.
A	Initial release	5-30-07	
B	Added wind circuit, lithium, modified wiring	6-4-09	BJ
C	add diodes on solar/wind circuits, add auxiliary battery breakers, reformat drawing	4-11-13	



Forgen wind turbines, 3-phase, with DC rectifier box at turbine body.

wind turbine divert load (heat pads)

weather station, uses serial comms to GPS receiver with serial surge protector timer switch for Iridium modem

Iridium modem. Dial-up uses serial comms to GPS receiver with serial surge protector. Xeos RUDICS uses ethernet comms to GPS receiver. RF surge suppressor, 1/4-wave bandpass filter type, mounted on grounding plate

grounding plate on enclosure wall, with two ground wires directly to battery negative terminals, and two ground wires directly to anti-static bag surrounding electronics board

RF surge suppressor, gas discharge type, mounted on grounding plate

Polar Permanent GPS Station Power System Schematic

Part Number	Rev
PPS-DC-002	C

UNAVCO, Inc.
POLAR SERVICES
6350 Nautilus Dr., Boulder CO 80301
303-381-7500, 303-381-7451 fax

UNAVCO

Drawing: **S. White**
Engineering: **S. White**
Approval:
Date Modified: **April 10 2013**
SHEET 1 OF 1

NOTES:

1. See PPS-DC-007 for physical layout and part numbers.
2. Ground symbol designates connection to common terminal strip, except where noted.
3. No explicit external earth ground is present.
4. Battery banks are 12V SLA gel cell. Optional 18V lithium battery backup not shown.