Ship Sector Control System for Flux Analyzers
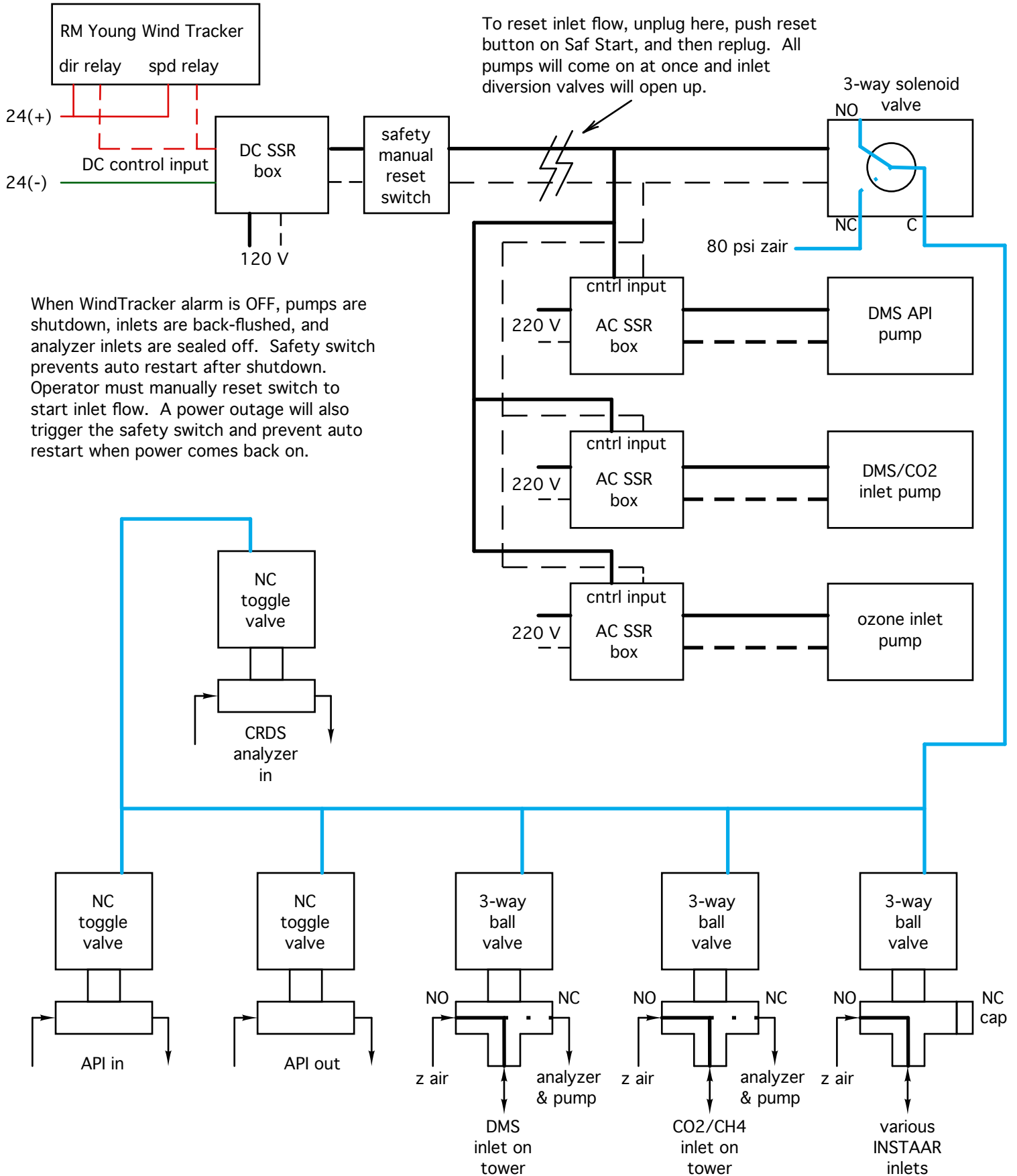
Wind Tracker alarms configured to be ON when wind
is > 1 m/s and in-sector (+/- 120 deg from bow)

RM Young Wind Tracker

dir relay   spd relay

24(+)

DC control input

24(-)

DC SSR
box

120 V

safety
manual
reset
switch

To reset inlet flow, unplug here, push reset
button on Saf Start, and then replug. All
pumps will come on at once and inlet
diversion valves will open up.

3-way solenoid
valve

NO

NC   C

80 psi zair

When WindTracker alarm is OFF, pumps are
shutdown, inlets are back-flushed, and
analyzer inlets are sealed off. Safety switch
prevents auto restart after shutdown.
Operator must manually reset switch to
start inlet flow. A power outage will also
trigger the safety switch and prevent auto
restart when power comes back on.

cntrl input

220 V   AC SSR
box

DMS API
pump

cntrl input

220 V   AC SSR
box

DMS/CO2
inlet pump

NC
toggle
valve

CRDS
analyzer
in

cntrl input

220 V   AC SSR
box

ozone inlet
pump

NC
toggle
valve

API in

NC
toggle
valve

API out

3-way
ball
valve

NO   NC

z air   analyzer
& pump

DMS
inlet on
tower

3-way
ball
valve

NO   NC

z air   analyzer
& pump

CO2/CH4
inlet on
tower

3-way
ball
valve

NO   NC
cap

z air

various
INSTAAR
inlets