

# Slow-Controls Rack ORC

Slow control ORC (8/13/2021)



Slow\_Control\_Ra...RC\_August13.pdf

Attachment: Target lifter ORC and Microwave ORC

[Microwave ORC\\_HVShortcable.pdf](#)

[ORC-1865\\_Lifter control System.pdf](#)

23 Aug 2021

ORC version 1 was reviewed by Steve et al and provided following recommendations/modifications.

08/23/2021 15:59:17 : Steve J Chappa:

During the ORC review for this rack this afternoon, we found:

- 1) **Require** to install the lower screws for the Temp Interlock chassis front panel. Just using the top panel screw mounting holes puts a lot of stress on the front panel corners and the chassis is not firmly installed.
- 2) **Require** to label the isolation transformer AC output cord as being 208VAC on both ends. The IEC connector used on the equipment end of the cord is identical to those used for 120VAC,
- 3) **Require** to install the properly sized cable restraint glands or "cord grips" on the isolation transformer. These cords should not pull on the inside connections/conductors and the fittings for the glands need to be secured and tightened.
- 4) **Highly recommend** to provide some means of fixing the HV supply chassis from sliding on the shelf. It slid very easily when the cord was unplugged and then plugged back in.
- 5) **Require** to redress the AC cord coming from the AC 3-phase to single-phase distribution box. Cut the top cable tie and reroute the cord so it runs out of the rack (as discussed), to the receptacle, without sharp bends on the cord.
- 6) For the equipment safety ground wires, **require** to replace the fork-tongue terminals with ring-tongue terminals and add a star lock washer to the grounding connection. These terminals need to be properly crimped and solder cannot be used as the sole means of implementing the connection. There must be a mechanical restraint or method to secure the grounding connection.

When the above corrective actions are completed, a follow-up visual review will be required to verify these corrections. Once verified and completed, then the ORC recommendation can be given.

Regards,

Steve

24 Aug 2021

All those recommendations/modifications were fixed and got the approval from Steve et al. Please see below few pictures after modifications.

