ORION Technical Solutions

Instrumentation Inspection Checklist
(Part 1 of 7 - General Checks of ALL Field Transmitters)

☐ FIND / VERIFY DEFINITIVE SOURCE DATA (INTOOLS, AMS, ETC.) - THIS IS AN OFTEN OVERLOOKED, BUT CRITICAL STEP. YOU MUST KNOW WHAT IS EXPECTED TO KEEP THE DUCKIES LINED UP IN ATTACK FORMATION!

☐ VERIFY URL/LRL AND URV/LRV

☐ VERIFY SECURITY JUMPER/SWITCH/SETTING

☐ VERIFY TRANSMITTER ALARM FAIL DIRECTION

☐ CHECK DAMPING (AND ALLOW FOR 7-10X TIME CONSTANT FOR READINGS TO SETTLE OUT TO AVOID INTRODUCTION OF ERRORS)

☐ ENSURE TAG INFO MATCHES (DIGITAL TAG AND NAMEPLATE / DATA PLATES LEGIBLE AND MATCHES)

☐ VERIFY INSTRUMENT DEVICE MODEL, VERSION, ETC.

☐ SIGNAL SHIELD TERMINATED PROPERLY PER SITE SPECS (TYPICALLY SHIELD IS TERMINATED AT CONTROL PANEL ONLY)

☐ VERIFY TRANSMITTER CASE CORRECTLY GROUNDED (WHEN APPLICABLE; PER SPECS)

☐ ACCESS COVER O-RINGS LUBED AND SEALS OK (KEEP LUBE IN TOOL BAG)

☐ CHECK APPLICABLE FEEDING CABLE TRAYS, LADDER RACKS, CABLE SUPPORTS, ETC. (NO STRESSORS, FOOTHOLDS, OR OTHER WEAR ISSUES)

☐ VERIFY CABLE GLANDS AND SEALS (LOOK FOR EVIDENCE OF LEAKAGE OR IMPROPER ORIENTATION SUCH AS TOP ENTRY OR NO DRIP LOOP)

☐ DEVICE IS ACCESSIBLE AND MAINTAINABLE (IF NOT, AT LEAST REPORT IT)

☐ CHECK FOR SIGNS OF EXCESS CORROSION, EROSION, OR WEAR

☐ TRANSMITTER HEAD ROTATION SET-SCREWS TIGHT (GIVE IT A TEST ROTATION, BUT DON'T MOVE IT MORE THAN 1/32 OF A TURN)

☐ CHECK FOR WATER/MOISTURE INGRESS (CONDENSATION OR FILM ON LCD VIEWING GLASS, EVIDENCE OF RUST INSIDE, ETC.)

☐ VERIFY LOI/LCD DISPLAYS PROPER DATA PER SITE STANDARDS (TYPICALLY PV, %, EXPECTED MA, POSSIBLY MORE)

☐ ENSURE PROPER CONDUIT ARRANGEMENT AND INTEGRITY OF CONDUIT

☐ ENSURE CABLES, WIRES, TERMINALS TIGHT, PROPERLY INSULATED, TERMINATED, AND IN GOOD CONDITION