APPENDIX A ADDENDUM 2 – PRELIMINARY UPGRADE RECOMMENDATIONS

CITY OF WINNIPEG WATER AND WASTE DEPARTMENT WASTEWATER SERVICES DIVISION PRELIMINARY RECOMMENDATIONS

Mission FPS:

Electrical and Automation/Instrumentation
1. Replace or upgrade all existing electrical equipment including but not limited to: service entrance switchgear, electrical panels, control panels, circuit breakers, motor starters, distribution panels, transformers, CSTE, uninterruptible power supplies, lighting, receptacles, cables and wiring, motor control center and all associated components.
2. Replace Remote Terminal Unit
3. New Level Sensors and Transmitters or upgrades
4. Install and integrate a Motor Control Centre (MCC)
5. Remove existing resistance typed reduced voltage starters (RVS)
6. Replacement of electrical distribution system including but not limited to new cabling and wiring, new interior and exterior lighting, wall receptacles in the Station.

Mechanical
1. New main floor cooling fan system or upgrades
2. New drywell ventilation system or upgrades
3. New facility heaters as required
4. New existing seal water valving or upgrades

Building and Site
1. Localized wood frame wall repair
2. Insulate main floor of building
3. New exterior siding and/or trim refinishing
4. Replace entry door and frame
5. Replace existing window and infill wall opening
6. Foamed plastic installation in drywell remediation or upgrades
7. Repair or replace existing roof, hatch and any associated roof repairs

Substructure
1. Repair grade beam cracks and/or spalling
2. Inject & patch cracks in drywell concrete walls and or beams
3. Repair drywell floor for drainage
4. Repair spalled pump base concrete, grout and/or anchor bolts
5. Install new access platforms for pump shaft guide bearings
6. Repair wet well roof, wall and column concrete(cracks and or spalling)
7. Repair wet well intermediate slab and beam, floor slab and culvert(cracks and/or spalling)
8. Inspect and upgrade/repair wet well trash racks
9. Upgrade/repair wet well ladders and railings