

# Facilities CMMS PM Scheduling Process

Facilities Management & Logistics (FM&L)

**Document Change Control** – Below details a history of the revisions made to this document:

Revision Number	Date of Issue	Author(s)	Brief Description of Change
1.0	3/28/2023	Linda Sippel	Initial Draft

**CMMS Preventive Maintenance (PM) Scheduling Process** – Below details the process for JLab facilities PM scheduling in the CMMS:

- The JLab Facilities Computerized Maintenance Management System (CMMS) supports routine scheduled preventive maintenance to be performed using work orders automatically generated by the system at regular intervals. It consists of a work type, a work group, a PM owner, an asset or group of assets (in a route), a job plan, a frequency number with a frequency unit (day, week, month, or year) and a due date. See **Appendix C** for work groups and work types.
- In the CMMS <u>PM module</u>, PMs are grouped by location using the naming convention: *location-asset type-frequency*, where the PM frequency of work order generation is denoted by the following letter/number/combination: A=annually, SA=semi-annually, Q=quarterly, B=bi-monthly, M=monthly, and W=weekly. There are also multiple year frequencies such as: 3Y=every 3 years and 5Y=every 5 years. See Appendix A for asset types and Appendix B for locations.
- Two statuses are used for CMMS PMs: **ACTIVE** = scheduled to generate a PM work order and **INACTIVE** = not currently scheduled to generate a PM work order. When you create a PM it automatically gets saved in **DRAFT** status, which you must then change to be **ACTIVE**.
- The CMMS Administrator may generate a PM work order at any time by selecting Generate Work Orders from the "Select Action" menu and unchecking the Use Frequency Criteria box and then clicking on OK. You must then update the Target Finish Date on all generated PM work orders and correct the Estimated Next Due Date on the PM's <u>Frequency</u> tab to correspond with the time span of the PM that would be expected had it automatically generated the PM work orders (ie: 3 months for quarterly, 6 months for semi-annual, 1 year for annual, etc.).
- A single asset may be referenced, or for multiple assets, a route is created and referenced in the PM. For multiple assets to be grouped similarly at a location, they are listed in a route in the CMMS <u>Route module</u> using a similar naming convention to the PM name. Routes have no status, but do provide 3 choices to select for generating PM work orders:
  - Child Work Orders = new work orders associated with the PM work order in a parent-child relationship are created for each asset listed in the route and are listed in the PM work order's <u>Plans</u> tab in the "Children of Work Order ..." section.
  - Entries in the Work Order's Multi Asset, Location and CI Table = assets in the route are listed in the PM work order's "Multiple Assets, Locations and Cis" section on the <u>Work Order</u> tab.
  - Work Order Tasks = assets in the route are listed as a sequence of tasks in the PM work order's "Tasks for Work Order ..." section on the <u>Plans</u> and <u>Actuals</u> tabs.
- Job plans for tasks to be performed during a particular PM are created in the <u>Job Plan module</u> with a name representing the asset, frequency, and/or activity (such as inspection or calibration). Four statuses are used for CMMS Job Plans:
   ACTIVE = an active version of the job plan available for selection in a PM, **INACTIVE** = a non-active job plan, **PNDREV** = a pending revision status between REVISED and ACTIVE where changes can be made until the status is changed to ACTIVE, and **REVISED** = a version-controlled job plan copy containing changes made previously to the ACTIVE job plan.
- In the PM, on the <u>PM</u> tab in the middle "**Details**" section on the right is the **Counter** field. It is used to denote where the PM is in its work order generation run cycle (starting at 0 and incrementing by 1 after each run). For multiple job plans such as a quarterly PM, go to the <u>Job Plan Sequence</u> tab and you will see that there is a quarterly job plan with a sequence number of 1 and an annual job plan with a sequence of 4. The value in the **Sequence** field means that this job plan is used on every *nth* work order generated from the PM, where *n* is the sequence number. The job plan with the highest sequence number that divides evenly into the value in the **Counter** field is selected. If no sequence number meets this criterion, the primary job plan (sequence number 1) is used.
- On the <u>PM</u> tab you can tell which job plan is selected by viewing the name listed in the middle "Work Order Information" section "Job Plan" field. You can change the PM Counter field number by clicking on the "Select Action" menu, selecting "Set PM Counter", put in a new value in the "New PM Counter" box and hit "OK". The Counter field will be updated and possibly the Job Plan field as well.
- A work order with a PM work type (known in this document as a PM work order) is automatically created by the CMMS system on the scheduled release date (Earliest Next Due Date Lead Time) in the <u>Work Order Tracking module</u> (no service request is generated). The work order owner regularly reviews the scheduled work and assigns a work lead.

- Work orders with the following statuses are considered to be open and available for work: APPR, WAPPR, WMATL, WPCOND, and WSCH see **Appendix D** for details.
- Each month, the upcoming PMs to be generated as well as the open PM work orders coming due need to be reviewed for the FME (Facilities Maintenance Electrical) and FMM (Facilities Maintenance Mechanical) work groups, due to the number and complexity of their PMs. A report application of Upcoming PMs for Group is available here: <u>https://mis.jlab.org/mis/apps/facilities/pmsForGroup.cfm</u> and queries showing open PM work orders to be reviewed are available in the <u>Work Order Tracking module's</u> Query drop down menu box in the upper left corner.
- Each month meetings are held with the FME & FMM work group PM coordinators to review the list of open and upcoming PM work orders as well as any open pending service requests.
- In one window show the **Upcoming PMs for Group** report by selecting the "FME" or "FMM" group and the next month start and end dates and then click on the **Search in Browser** button to scroll through the list.
- In another window, select the **Review FME Open PM Work Order Status** or **Review FMM Open PM Work Order Status** query in the <u>Work Order Tracking module</u> to see if there are any parent PM work orders that need to be completed or canceled for the work group based on the PM frequency in the description and the target finish date during that month.
  - $\circ$   $\,$  Sort the list by clicking on the Target Finish column heading to show the oldest work orders at the top.
  - If needed, remove work orders from the list containing service request numbers by typing ~null~ in the empty box below the SR # field or type !=~null~ to show only those work orders.
  - Compare the target finish date to the current date along with the work order description. Annual PM work orders will be due 1 year after the target finish date, semi-annuals will be due 5 months after the target finish date (comprising 6 months including the first month), quarterlies will be due 2 months after the target finish date (comprising 3 months including the first month), bi-monthlies will be due 1 month after the target finish date (comprising 2 months including the first month), and monthlies will be due each month.
  - On the last day each month after 5pm, the CMMS Administrator reviews the list of open parent PM work orders for all work groups to see which ones need to be closed that month based on the work order description and target finish date.
    - If any work orders show child work orders on the <u>Plans</u> tab, review the list to see which ones are set to COMP for completed work. If all are complete, then this work order is complete and its status can be set to COMP. If any child work orders are missing labor hours on the <u>Actuals</u> tab, then those work orders are to be set to CLOSE to indicate the CMMS Administrator closed the child work order due to no information on the status of the work.
    - If any child work orders have a COMP status, then the parent work order is set to COMP, even if other child work orders have a CLOSE status.
    - If all child work orders are open and a selected set of child work orders have no labor hours, all will be set to a CLOSE status along with the parent work order.
    - If any parent work orders with no child work orders show labor hours on the Actuals tab, then the status may be set to COMP. If there are no hours, then set the status to CLOSE to indicate the CMMS administrator closed the work order due to no information on the status of the work.
    - Review any open FMM Service Work (SW) work orders using the Incomplete FMM Mechanical Area Monthly Inspections and the Incomplete Mnthly/Qtrly FMM PM/SW WO's queries to close or complete these work orders as well.
    - If a quarterly PM falls within the same time as an annual PM for the same location, the quarterly will be set to CAN and a log will state it is not needed for this quarter due to the annual PM to be worked. PMs like this will not be counted in the monthly metrics report.
  - On the first day of the following month, run the Find Duplicate PMs and Find Duplicate SWs queries, sorting on the Description field to look through the list for completing or closing any duplicate PM/SW work orders missed from the previous month. Make sure the status date is changed to the previous month before closing or completing them.

• Go to the <u>Preventive Maintenance module</u> and select the Active PMs query. Except for weekly and specialty inspection PMs, all equipment maintenance PMs should have a due date on the 28<sup>th</sup> of a month. For those PMs with an Estimated Next Due Date not on the 28<sup>th</sup>, you will update the Extended Date field to adjust the due date. For those PMs needing a due date adjustment, click on the PM name, click on the Frequency tab, and type in the new due date in the Extended Date field, click on the Save PM icon, then check the Adjust Next Due Date? Box and click on Save PM again.

Asset Type	Description	Managing Work Group	
AAD	Audible Alarm Device	Fire Protection	
AC	Air Compressor   Fan Coil	Fire Protection   Mechanical	
ACC	Air Cooled Condenser (Refrigerant Coil)	Mechanical	
ACU	Air Conditioning Unit	Mechanical	
ACWP	Acid Chilled Water Pump	Mechanical	
AHU	Air Handling Unit	Mechanical	
ASCP	Air Sampling Control Panel	Fire Protection	
ASSD	Air Sampling System Detector (VESDA)	Fire Protection	
ATS	Automatic Transfer Switch	Electrical	
AV	Alarm Valve	Fire Protection	
AV/CH	Alarm Valves / Check Valves on Riser	Fire Protection	
В	Boiler	Mechanical	
BFP	Backflow Preventer	Mechanical	
BS	Branch Selector	Mechanical	
CAM	Security Camera	Electrical	
CATF	Clean Agent/Total Flooding System	Fire Protection	
СН	Chiller	Mechanical	
СНН	ARC Chiller	Mechanical	
CMS	Panelboard	Electrical	
CP	Panelboard	Electrical	
CRAC	Panelboard       Electrical         Computer Room Air Conditioning Unit (Direct Expansion)       Mechanical		
CRAH	Computer Room Air Handling Unit (Chilled Water Air Handling Unit)	Mechanical	
CRN	Crane	Structural	
CRU	Computer Room Unit	Mechanical	
CRYO	Panelboard Electrical		
СТ	Cooling Tower Cell	Mechanical	
СТВЅ	Cooling Tower Basin Strainer	Mechanical	
CTF	Cooling Tower Fan	Mechanical	
СТР	Cooling Tower Pump   Mechanical		
CTS	Cooling Tower Strainer	Mechanical	
CV	Check Valve   Control Valve	Fire Protection	
CWP	Chilled Water Pump	Mechanical	
DD	Desiccant Air Dryer	Mechanical	
DDC	Direct Digital Control	Mechanical	
DHU	Dehumidification Unit	Mechanical	
DOR	Interior/Exterior Door	Structural	
DS	Disconnect/Distribution Switch	Electrical	
DSD	Disconnect/Distribution switch       Electrical         Duct Smoke Detector       Fire Protection		
DWR	Dewar Mechanical		
ECB	Enclosed Circuit Breaker Electrical		
EAC	Exhaust Air Control Mechanical		
EF	Exhaust Fan Mechanical		
ELV	Elevator		
EMLIGHT	Emergency/Exit Light	Electrical	
ERU	Energy Recovery Unit Mechanical		

Appendix A - Use the following example list to determine the asset type to be used when naming a PM in the CMMS:

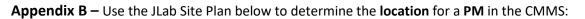
		0
ESEF	End Station Exhaust Fan	Mechanical
EUH	Electric Unit Heater	Mechanical
EV	Electric Vehicle	Vehicles
EVC	Electric Vehicle Charging Station	Electrical
EYE	Eyewash/Safety Shower	Mechanical
F	Fan	Mechanical
FACP	Fire Alarm Control Panel	Fire Protection
FC	Fire Connection	Fire Protection
FCU	Fan Coil Unit	Mechanical
FDC	Fire Department Connection	Fire Protection
FDU	Fiber Distribution Unit	Electrical
FL	Incoming Fire Line	Fire Protection
FPB	Fan Powered Box	Mechanical
GEN	Generator	Electrical
GTP	Geothermal Pump	Mechanical
GTW	Ground Test Well	Electrical
GWP	Groundwater Pump	Mechanical
HD	Heat Detector	Fire Protection
HEX	Heat Exchanger	Mechanical
HP	Heat Pump	Mechanical
HPAF	High Power Amplifier Fan	Mechanical
HPP	High Pressure Pump	Mechanical
HPU	Heat Pump Unit	Mechanical
HRP	Heat Recovery Pump	Mechanical
HRV	Heat Recovery Ventilation	Mechanical
HS	Hood System	Mechanical
HTAPE	Heat Trace Tape	Electrical
HUM	Humidifier	Mechanical
HVAC	Heating, Ventilation, and Air Conditioning Pnlbrds Electrical	
HWP	Hot Water Pump Mechanical	
HYDRANT	Fire Hydrant	Fire Protection
ICE	Ice Machine	Mechanical
IDF	Intermediate Distribution Frame	Electrical
IPC	Integrated Power Center	Electrical
IU	Independent AC Unit	Mechanical
L	Lighting Panelboard	Electrical
LAV	Lavatory (Bathroom Sink)	Structural
LCWF	Low Conductivity Water Filter	Mechanical
LCWP	Low Conductivity Water Pump	Mechanical
LDR	Ladder	Structural
LHD	Linear Heat Detector	Fire Protection
LP	Lightning Protection Electrical	
LS	Lift Station	Mechanical
M	Mechanical Panelboard	Electrical
MAU	Make-up Air Unit (Supply Air) Mechanical	
MCB	Main Circuit Breaker	Electrical
MCC	Motor Control Center	Electrical
MDF	Main Distribution Frame   Electrical	
		Electrical

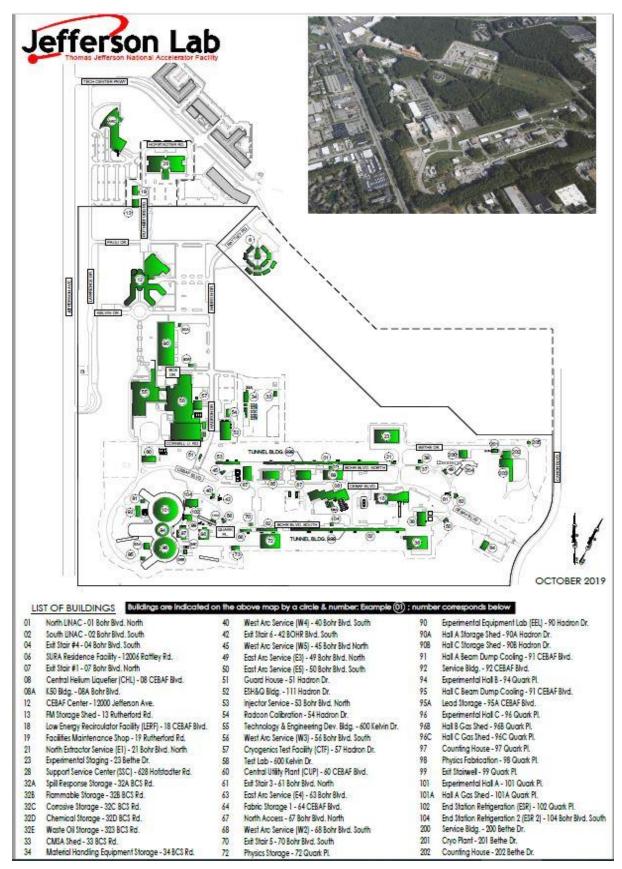
MS	Manual Pull Station	Fire Protection
MV	Medium Voltage	Electrical
MVMCC	Medium Voltage Motor Control Center	Electrical
MVSG	Medium Voltage Switchgear	Electrical
MVSW	Medium Voltage Switch	Electrical
OAU	Outside Air Unit	Mechanical
OHD	Overhead Door	Structural
OME	Oil Mist Eliminator	Mechanical
OWS	Oil Water Separator	Mechanical
Р	Power Panelboard	Electrical
PA	Pre-Action Valve	Fire Protection
PACU	Packaged Air Conditioning Unit	Mechanical
PAD3	PAD-3	Fire Protection
РВ	Push Button Smoke Removal System	Fire Protection
PDU	Power Distribution Unit	Electrical
PH	Fire Fighter Phone Station	Fire Protection
PIV	Post Indicator Valve	Fire Protection
PNLB	Panelboard	Electrical
PP	Patch Panel	Electrical
РСН	P Chiller	Mechanical
PRCWP	PR Chilled Water Pump	Mechanical
PTAC	Packaged Terminal Air Conditioner	Mechanical
RCC	Remote Control Center	Fire Protection
RD	Refrigerated Dryer	Mechanical
RF	Return Air Fan   Rack Fan   Mechanical	
RH	Roof Hatch	Structural
	Roof Hatch Radiant Heater Unit	Structural Mechanical
RHU	Radiant Heater Unit	Mechanical
RHU RM	Radiant Heater Unit Refrigerant Monitor	Mechanical Mechanical
RHU RM ROAD	Radiant Heater Unit	Mechanical Mechanical Structural
RHU RM	Radiant Heater Unit Refrigerant Monitor Road Roof	Mechanical Mechanical
RHU RM ROAD ROOF RTU	Radiant Heater UnitRefrigerant MonitorRoadRoofRoof Top Air Unit	Mechanical Mechanical Structural Structural Mechanical
RHU RM ROAD ROOF RTU RU	Radiant Heater UnitRefrigerant MonitorRoadRoofRoof Top Air UnitRefrigeration Unit	Mechanical       Mechanical       Structural       Structural       Mechanical       Mechanical       Mechanical
RHU RM ROAD ROOF RTU RU SAF	Radiant Heater UnitRefrigerant MonitorRoadRoofRoof Top Air UnitRefrigeration UnitSupply Air Fan	MechanicalMechanicalStructuralStructuralMechanicalMechanicalMechanicalMechanical
RHU RM ROAD ROOF RTU RU SAF SD	Radiant Heater UnitRefrigerant MonitorRoadRoofRoof Top Air UnitRefrigeration UnitSupply Air FanSmoke Detector	MechanicalMechanicalStructuralStructuralMechanicalMechanicalMechanicalFire Protection
RHU RM ROAD ROOF RTU RU SAF SD SEF	Radiant Heater UnitRefrigerant MonitorRoadRoofRoof Top Air UnitRefrigeration UnitSupply Air FanSmoke DetectorScrubber Exhaust Fan	MechanicalMechanicalStructuralStructuralMechanicalMechanicalMechanicalFire ProtectionMechanical
RHU RM ROAD ROOF RTU RU SAF SD SEF SHP	Radiant Heater UnitRefrigerant MonitorRoadRoofRoof Top Air UnitRefrigeration UnitSupply Air FanSmoke DetectorScrubber Exhaust FanSprinklers & Associated Piping	MechanicalMechanicalStructuralStructuralMechanicalMechanicalFire ProtectionMechanicalFire ProtectionMechanical
RHU RM ROAD ROOF RTU RU SAF SD SEF SHP SP	Radiant Heater UnitRefrigerant MonitorRoadRoofRoof Top Air UnitRefrigeration UnitSupply Air FanSmoke DetectorScrubber Exhaust FanSprinklers & Associated PipingSystems Panelboard	MechanicalMechanicalStructuralStructuralMechanicalMechanicalMechanicalFire ProtectionFire ProtectionFire ProtectionElectrical
RHU RM ROAD ROOF RTU RU SAF SD SEF SHP SP SUB	Radiant Heater UnitRefrigerant MonitorRoadRoofRoof Top Air UnitRefrigeration UnitSupply Air FanSmoke DetectorScrubber Exhaust FanSprinklers & Associated PipingSystems PanelboardSubstation	MechanicalMechanicalStructuralStructuralMechanicalMechanicalMechanicalFire ProtectionMechanicalFire ProtectionElectricalElectrical
RHU RM ROAD ROOF RTU RU SAF SD SEF SHP SP	Radiant Heater UnitRefrigerant MonitorRoadRoofRoof Top Air UnitRefrigeration UnitSupply Air FanSmoke DetectorScrubber Exhaust FanSprinklers & Associated PipingSystems Panelboard	MechanicalMechanicalStructuralStructuralMechanicalMechanicalMechanicalFire ProtectionFire ProtectionFire ProtectionElectrical
RHU RM ROAD ROOF RTU RU SAF SD SEF SHP SP SUB SW SWBD	Radiant Heater UnitRefrigerant MonitorRoadRoofRoof Top Air UnitRefrigeration UnitSupply Air FanSmoke DetectorScrubber Exhaust FanSprinklers & Associated PipingSystems PanelboardSubstationSwitchSwitchboard	MechanicalMechanicalStructuralStructuralMechanicalMechanicalMechanicalFire ProtectionMechanicalFire ProtectionElectricalElectricalElectricalElectricalElectricalElectricalElectricalElectricalElectrical
RHU RM ROAD ROOF RTU RU SAF SD SEF SHP SP SUB SW	Radiant Heater UnitRefrigerant MonitorRoadRoofRoof Top Air UnitRefrigeration UnitSupply Air FanSmoke DetectorScrubber Exhaust FanSprinklers & Associated PipingSystems PanelboardSwitch	MechanicalMechanicalStructuralStructuralMechanicalMechanicalMechanicalFire ProtectionMechanicalElectricalElectricalElectricalElectrical
RHU RM ROAD ROOF RTU RU SAF SD SEF SD SEF SHP SUB SWB SWBD SWBD SWBD SWGR TA-EF, TB-EF,	Radiant Heater UnitRefrigerant MonitorRoadRoofRoof Top Air UnitRefrigeration UnitSupply Air FanSmoke DetectorScrubber Exhaust FanSprinklers & Associated PipingSystems PanelboardSubstationSwitchSwitchboardSwitchgear	Mechanical       Mechanical       Structural       Structural       Mechanical       Mechanical       Mechanical       Mechanical       Fire Protection       Mechanical       Fire Protection       Electrical       Electrical       Electrical       Electrical       Electrical       Electrical
RHU RM ROAD ROOF RTU RU SAF SD SEF SD SEF SHP SUB SWB SWB SWBD SWBD SWGR TA-EF, TB-EF, TC-EF	Radiant Heater UnitRefrigerant MonitorRoadRoofRoof Top Air UnitRefrigeration UnitSupply Air FanSmoke DetectorScrubber Exhaust FanSprinklers & Associated PipingSystems PanelboardSwitchSwitchboardSwitchgearTruck Access Exhaust Fan (Halls A, B, C)	MechanicalMechanicalStructuralStructuralMechanicalMechanicalMechanicalFire ProtectionMechanicalFire ProtectionElectricalElectricalElectricalElectricalElectricalElectricalElectricalElectricalElectricalMechanical
RHU RM ROAD ROOF RTU RU SAF SD SEF SHP SUB SVB SWBD SWBD SWBD SWBD SWGR TA-EF, TB-EF, TC-EF	Radiant Heater UnitRefrigerant MonitorRoadRoofRoof Top Air UnitRefrigeration UnitSupply Air FanSmoke DetectorScrubber Exhaust FanSprinklers & Associated PipingSystems PanelboardSwitchSwitchboardSwitchgearTruck Access Exhaust Fan (Halls A, B, C)Unit Heater	MechanicalMechanicalStructuralStructuralMechanicalMechanicalMechanicalMechanicalFire ProtectionMechanicalFire ProtectionElectricalElectricalElectricalElectricalElectricalElectricalMechanicalMechanical
RHU RM ROAD ROOF RTU RU SAF SD SEF SD SEF SHP SUB SWBD SWBD SWBD SWBD SWBD SWGR TA-EF, TB-EF, TC-EF	Radiant Heater UnitRefrigerant MonitorRoadRoofRoof Top Air UnitRefrigeration UnitSupply Air FanSmoke DetectorScrubber Exhaust FanSprinklers & Associated PipingSystems PanelboardSwitchSwitchboardSwitchgearTruck Access Exhaust Fan (Halls A, B, C)Unit HeaterUninterruptible Power Supply	MechanicalMechanicalStructuralStructuralMechanicalMechanicalMechanicalFire ProtectionMechanicalFire ProtectionElectrical
RHU       RM       ROAD       ROOF       RU       SAF       SD       SEF       SHP       SW       SWBD       SWGR       TA-EF, TB-EF, TC-EF       UH       UPS       UR	Radiant Heater UnitRefrigerant MonitorRoadRoofRoof Top Air UnitRefrigeration UnitSupply Air FanSmoke DetectorScrubber Exhaust FanSprinklers & Associated PipingSystems PanelboardSwitchSwitchboardSwitchgearTruck Access Exhaust Fan (Halls A, B, C)Unit HeaterUninterruptible Power SupplyUrinal	MechanicalMechanicalStructuralStructuralMechanicalMechanicalMechanicalFire ProtectionMechanicalFire ProtectionElectricalElectricalElectricalElectricalElectricalElectricalElectricalElectricalElectricalElectricalElectricalElectricalElectricalElectricalStructural

VFD	Variable Frequency Drive	Mechanical
VIU	Variable Refrigerant Flow (VRF) - Indoor Unit	Mechanical
VLV	Distribution Valve	Mechanical
VOU	Variable Refrigerant Flow (VRF) - Outdoor Unit	Mechanical
VRFC	Variable Refrigerant Fan Coil	Mechanical
WATER METER	Water Meter	Engineering
WC	Water Closet (Toilet)	Structural
WFN	Water Fountain	Structural
WFS	Water Flow Switch	Mechanical
WH	Water Heater (Electric, Gas)	Mechanical
WS	Wet Standpipe	Fire Protection
WU	Window Unit	Mechanical
WWHP	Water-Water Heat Pump	Mechanical
XFMR	Transformer Electrical	

= Acronym is used for multiple asset types

**Note**: for those with access, this list may be viewed/updated here: <u>M:\facilities\Software\Maximo\Acronyms for Assets</u>.





**Note:** site plan is located at <u>m:\facilities\Master Documents\Drawings\Site Plans</u>. See next page for more locations.

The following are non-numbered locations, offsite warehouses, or non-specific site locations:

ARC = Applied Research Center AWN = Acid Waste Neutralization BC2 = Blue Crab Road Warehouse (offsite) CHW = Chilled Water Distribution CMSA = Central Materials Storage Area COMM = Communications Distribution CT = Cooling Towers (associated with bldgs: 08, 200, 38, 57, 58, 67, & 92) CW = Condenser Water Distribution DITCHES = Ditches E = Equipment Costpoint Costs (associated with bldgs: 101, 203, 94, 96, & 999) EMSA = East Materials Storage Area ELEC = Electrical Distribution EVC = Electric Vehicle Charging Stations FENCING = Security Fencing KIOSKS = Smoking Kiosks LCW = Low Conductivity Water Distribution LIGHTS = Street Lights NGAS = Natural Gas Distribution PARKING = Parking POND-E = Retention Pond – East Side of JLab POND-N = Retention Pond – North Side of JLab **RM = Boundary Radiation Monitors** ROADS = Roads SEWER = Sanitary Sewer SIDEWALK = Sidewalks STRMPIPE = Stormwater Piping TS = Thimble Shoals Warehouse WATER = Potable Water Distribution WB = Warwick Blvd Warehouse (offsite) WELLS = Ground Water Monitoring Wells WMSA = West Materials Storage Area

Work Groups	Description	Group Default Work Order Owner	PM Coordinator(s)
FM	Facilities Management	David Fazenbaker	Tracy Draine / Linda Sippel
FME	Electrical	Todd Kujawa	Todd Kujawa / Howard Dunlap
FMENG	Engineering	Linda Sippel	Tracy Draine / Linda Sippel
FMFS	Fire Protection	Tim Minga	Lee Johnson / Robert Myles
FMM	Mechanical	Mike Sprouse	Mike Sprouse / Bobby Simone
FMO	Facilities Maint. & Ops	Wayne Williams	Wayne Williams / Al Porto
FMO-MH	Material Handling	Joe Thomas	Joe Thomas
FMO-P	Plumbing	Wayne Williams	Wayne Williams / Al Porto
FMO-S	Structural	Wayne Williams	Wayne Williams / Al Porto
FMO-VG	Vehicles	Joe Thomas	Joe Thomas
FMSS	Security & Services/ACS	Mike Lewellen	Mike Lewellen / Russell Pitts
LOCKS	Keys & Locks	Wayne Williams	Wayne Williams / Al Porto
PROP	Property	Jay Draughn	Jay Draughn / Jerry Mitchell

Appendix C – Use the following lists to determine the work group and work type to be assigned to a PM in the CMMS:

Work Types	Description
СМ	Corrective Maintenance
CMGT	Construction Management
СР	Capital Project
CSTN	Construction
DSGN	Design
MATL	Material
MOD	Modernization
PM	Preventive Maintenance
PMF	PM Find (ie: CM)
SOW	Scope of Work
STDY	Study
SW	Service Work

**Appendix D** – Use the following lists to denote the open **PM work orders** in the CMMS:

Work Order Statuses	Description
APPR	Approved for work
WAPPR	Waiting for work approval
WMATL	Waiting for material
WPCOND	Waiting for facility/work area access (plant conditions)
WSCH	Waiting for work to be scheduled

- **APPR** work approved status changes available: CANCEL-NOACCESS, CANCEL-NR, CLOSE, COMP, FLDWRKCOMP, WAPPR, WMATL, WPCOND, and WSCH
- **WAPPR** waiting approval status changes available: APPR, CAN, CANCEL-NOACCESS, CANCEL-NR, CLOSE, COMP, FLDWRKCOMP, WMATL, WPCOND, and WSCH
- **WMATL** waiting material status changes available: CANCEL-NOACCESS, CANCEL-NR, CLOSE, COMP, FLDWRKCOMP, and WAPPR
- **WPCOND** waiting plant conditions status changes available: APPR, CANCEL-NOACCESS, CANCEL-NR, COMP, FLDWRKCOMP, WAPPR, WMATL, and WSCH
- **WSCH** waiting scheduling status changes available: APPR, CANCEL-NOACCESS, CANCEL-NR, COMP, FLDWRKCOMP, WAPPR, WMATL, and WPCOND