

GENERAL SERVICES ADMINISTRATION AUTHORIZED FEDERAL SUPPLY SCHEDULE PRICE LIST FEDERAL SUPPLY SCHEDULE CATALOG/PRICE LIST

On-line access to contract ordering information, terms and conditions, up-to-date pricing, and the option to create an electronic delivery order are available through GSA Advantage!®, a menu-driven database system. The internet address for GSA Advantage!® is: GSAAdvantage.gov.

Schedule Title: Multiple Award Schedule (MAS)	
Contract Number:	47QSWA-19-D-002W
Contract Period:	Base period 01/17/2019 – 01/16/2024, incl. options 01/16/2039
Contractor Name:	M.C. Dean, Inc.
Contractor Address:	1765 Greensboro Station Place, Suite 1400, Tysons, VA
Contractor Phone:	(703) 802-6231
Contractor Fax:	(703) 421-4670
DUNS Number:	04-320-3249
Internet Address:	www.mcdean.com
Email Address:	MCDEAN.GSA.MAS@MCDean.com
Business Size:	Other Than Small (Large)
Contract Administrator:	Olivia Gear
SIN #:	334290PACS – Physical Access Control Systems (PACS) - FIPS 201 334512 – Total Solution Support Products for Facilities Management Systems 511210 – Software Licenses 541330ENG – Engineering Services 541330L – Security System Integration, Design, Management, and Life Cycle Support 541330SEC – Security System Integration, Design, Management, and Life Cycle Support 54151S – Information Technology Professional Services 541611 – Management and Financial Consulting, Acquisition and Grants Management Support, and Business Program and Project Management Services 561499N – Network Connectivity Support Services 561210SB – Smart Buildings Systems Integrator 541513 – Smart Buildings Systems Integration 541690E – Energy Consulting Services 561210FAC – Complete Facilities Maintenance and Management 561210FS – Facilities Support Services 541420 – Engineering System Design and Integration Services 238910 – Installation and Site Preparation Services 811212 – Maintenance of Equipment, Repair Services and/or Repair/Spare Parts ANCRA – Ancillary Repair and Alterations ANCILLARY – Ancillary Supplies and Services NEW – Introduction of New Supplies and Services OLM – Order-Level Materials (OLM)

For more information on ordering from Federal Supply Schedules, click on the FSS Schedules button at fss.gsa.gov.
Price list current as of April 17, 2022(Contract Mod #PS-0039)

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1a: Awarded Special Item Numbers (SINS)

334290PACS – Physical Access Control Systems (PACS) - FIPS 201
334512 – Total Solution Support Products for Facilities Management Systems
511210 – Software Licenses
541330ENG – Engineering Services
541330L – Security System Integration, Design, Management, and Life Cycle Support
541330SEC – Security System Integration, Design, Management, and Life Cycle Support
54151S – Information Technology Professional Services
541611 – Management and Financial Consulting, Acquisition and Grants Management Support, and Business Program and Project Management Services
561499N – Network Connectivity Support Services
561210SB – Smart Buildings Systems Integrator
541513 – Smart Buildings Systems Integration
541690E – Energy Consulting Services
561210FAC – Complete Facilities Maintenance and Management
561210FS – Facilities Support Services
541420 – Engineering System Design and Integration Services
238910 – Installation and Site Preparation Services
811212 – Maintenance of Equipment, Repair Services and/or Repair/Spare Parts
ANCRA – Ancillary Repair and Alterations
ANCILLARY – Ancillary Supplies and Services
NEW – Introduction of New Supplies and Services
OLM – Order-Level Materials (OLM)

1b: Lowest Price Model Number and Lowest Unit Price for Each SIN

See price list.

1c: Hourly Rate Information

See Appendix A: Hourly Rate Information.

2: Maximum Order

334290PACS; 334512; 541330L; 541330SEC - \$250,000
561210SB - \$1,000,000

3: Minimum Order

\$50

4: Geographic Coverage (Delivery Order)

Worldwide

5: Point(s) of Production

Tysons, VA, USA

6: Discount from List Prices or Statement of Net Price

All prices are net.

7: Quantity Discounts

0.5% on individual task orders over \$1,000,000.

8: Prompt Payment Terms

Net 30. *Information for Ordering Offices: Prompt payment terms cannot be negotiated out of the contractual agreement in exchange for other concessions.*

9: Foreign Items

Not applicable.

10A: Time of Delivery

Determined on a task order basis.

10B: Expedited Delivery

Items available for expedited delivery are noted in this price list.

10C: Overnight and 2-Day Delivery

M.C. Dean will provide our customer a dedicated Point of Contact upon task order award. Customers are encouraged to contact this individual directly for any overnight and 2-day delivery requirements.

10D: Urgent Requirements

M.C. Dean will provide our customer a dedicated Point of Contact upon task order award. Customers are encouraged to contact this individual directly for any urgent requirements.

11: F.O.B. Points

Destination.

12A: Ordering Addresses

Bid Administrator
1765 Greensboro Station Place
Tysons, Virginia 22102
Phone: (703) 802-6231
Fax: (703) 463-2668
Email: MCDEAN.GSA.MAS@MCDean.com

12B: Ordering Procedures

For supplies and services, the ordering procedures, information on Blanket Purchase Agreements (BPAs), and a sample BPA can be found at the GSA/FSS Schedule homepage (fss.gsa.gov/schedules) and in Federal Acquisition Regulation (FAR) 8.405-3

13: Payment Addresses

M.C. Dean, Inc.
P.O. Box 532232
Atlanta, GA 30353-2232

14: Warranty Provision

Not applicable.

15: Export Packing Charges

Not applicable.

16: Terms and Conditions of Rental, Maintenance, and Repair

Not applicable.

17: Terms and Conditions of Installation

Not applicable.

18A: Terms and Conditions of Repair Parts

Not applicable.

18B: Terms and Conditions for Any Other Services

Not applicable.

19: List of Service and Distribution Points

Not applicable.

20: List of Participating Dealers

Not applicable.

21: Preventive Maintenance

Not applicable.

22A: Special Attributes

ISO 9001:2015 Certified
CMMI Level 3 Certified
LEED Certified
EPA EnergyStar Partner
Department of Energy (DOE) Energy Service Company
Designated one of "America's Safest Companies" (EHS Today, 2017)

22B: Section 508A Compliance

Not applicable.

23: Unique Entity Identifier (UEI) Number

UEI Number: RD55NEXJ5EW4

24: Notification Regarding Registration in System for Award Management (SAM) Database

M.C. Dean maintains an active SAM registration; CAGE code 3K773.

25: Terms and Conditions for Overtime

When overtime is required, the Labor Category will be billed at 1.5 times the standard labor rate.

APPENDIX A: HOURLY RATE INFORMATION

The below Labor Categories can be used with the following SINs 334290PACS; 334512; 541330L; 541330SEC; 561499N; 561210SB; 541330ENG; 541611; 541513; 541690E; 561210FAC; 561210FS; 541420; 238910; 811212; ANCRA, NEW; 54151S.

LCAT	MINIMUM EDUCATION/ CERTIFICATION LEVEL	MINIMUM YEARS OF EXPERIENCE	1/17/2022- 1/16/2023	1/17/2023- 1/16/2024
Program Manager	BS in Engineering, Computer Science, Mathematics, Economics, or other field	10 years	\$134.52	\$138.29
Project Manager 3	BS in Engineering, Computer Science, Mathematics, Economics, or other field	6-9 years	\$125.07	\$128.57
Project Manager 2	BS in Engineering, Computer Science, Mathematics, Economics, or other field	3-5 years	\$118.89	\$122.22
Subject Matter Expert (IT)	MS in Engineering, Computer Science, Mathematics, Financial, or Business	15 years	\$342.72	\$352.32
Systems Architect (IT)	Master's Degree	15 years	\$241.13	\$247.88
Senior Network Engineer (IT)	BS in Engineering, Computer Science, Mathematics, Economics, or other field;	6-10 years	\$164.18	\$168.77
Network Engineer (IT)	BS in Engineering, Computer Science, Mathematics, Economics, or other field;	3-5 years	\$154.07	\$158.38
Jr. Network Engineer (IT)	BS in Engineering, Computer Science, Mathematics, Economics, or other field	Up to 3 years	\$139.85	\$143.76
Sr. Design Engineer	BS in Engineering, Computer Science, Mathematics, Economics, or other field;	6-10 years	\$118.53	\$121.85
System Engineer 2	BS in Engineering, Computer Science, Mathematics, Economics, or other field;	3-5 years	\$109.33	\$112.39
System Engineer 1	BS in Engineering, Computer Science, Mathematics, Economics, or other field	Up to 3 years	\$76.83	\$78.98

LCAT	MINIMUM EDUCATION/ CERTIFICATION LEVEL	MINIMUM YEARS OF EXPERIENCE	1/17/2022- 1/16/2023	1/17/2023- 1/16/2024
Tech Specialist	High School Graduate; Vendor certification such as Lenel, Hirsch, or Software House	10+ years	\$110.68	\$113.78
Programmer 3	High School Graduate; Vendor certification such as Lenel, Hirsch, or Software House	8-10 years	\$99.73	\$102.52
Programmer 2	High School Graduate; Vendor certification such as Lenel, Hirsch, or Software House	5-7 years	\$94.42	\$97.06
System Admin 2	High School Graduate; Vendor certification such as Lenel, Hirsch, or Software House	3-5 years	\$91.07	\$93.62
System Admin 1	High School Graduate; Vendor certification such as Lenel, Hirsch, or Software House	Up to 3 years	\$62.57	\$64.32
Technician 3	High School Graduate; Vendor certification such as Lenel, Hirsch, or Software House	8-10 years	\$83.13	\$85.46
Technician 2	High School Graduate; Vendor certification such as Lenel, Hirsch, or Software House	3-7 years	\$79.95	\$82.19
Technician 1	High School Graduate	Up to 3 years	\$71.95	\$73.96
FAC Electrical Apprentice I	High School Graduate	0	\$38.56	\$39.64
FAC Electrical Apprentice II	High School Graduate	1	\$45.77	\$47.06
FAC Electrical Apprentice III	High School Graduate	2	\$50.49	\$51.91
FAC Electrical Apprentice IV	High School Graduate	3	\$56.69	\$58.28

LCAT	MINIMUM EDUCATION/ CERTIFICATION LEVEL	MINIMUM YEARS OF EXPERIENCE	1/17/2022- 1/16/2023	1/17/2023- 1/16/2024
FAC Building Operations Center Manager	Bachelors	12	\$126.87	\$130.42
FAC Building Operation Center Specialists	High School Graduate	3	\$76.51	\$78.65
FAC COMM TECH I	High School Graduate	1	\$59.31	\$60.97
FAC COMM TECH II	High School Graduate	4	\$69.12	\$71.06
FAC Construction Surveillance Tech	High School Graduate	5	\$43.71	\$44.93
FAC Control Tech I	High School Graduate	1	\$60.83	\$62.53
FAC Control Tech II	High School Graduate	1	\$81.47	\$83.75
FAC Control Tech III	High School Graduate	2	\$85.23	\$87.62
FAC Control Tech IV	High School Graduate	3	\$100.51	\$103.32
FAC Electrician I	High School Graduate	2	\$64.67	\$66.48
FAC Electrician II	High School Graduate	3	\$75.07	\$77.17
FAC Electronics Tech	High School Graduate	4	\$74.61	\$76.69
FAC Equipment Mgr	High School Graduate	2	\$99.82	\$102.61

LCAT	MINIMUM EDUCATION/ CERTIFICATION LEVEL	MINIMUM YEARS OF EXPERIENCE	1/17/2022- 1/16/2023	1/17/2023- 1/16/2024
FAC Fire Alarm Tech I	High School Graduate	2	\$60.46	\$62.15
FAC Fire Alarm Tech II	High School Graduate	4	\$110.47	\$113.56
FAC Foreman	High School Graduate	3	\$83.98	\$86.33
FAC General Maint Tech I	High School Graduate	3	\$41.74	\$42.90
FAC General Maint Tech II	High School Graduate	5	\$59.27	\$60.93
FAC Generator Tech I	High School Graduate	0	\$65.97	\$67.81
FAC Generator Tech II	High School Graduate	2	\$119.75	\$123.10
FAC HVAC Tech I	High School Graduate	3	\$65.53	\$67.37
FAC HVAC Tech II	High School Graduate	4	\$89.69	\$92.20
FAC HVAC Tech III	High School Graduate	6	\$100.15	\$102.95
FAC Laborer	High School Graduate	0	\$39.91	\$41.03
FAC Mechanical Systems Op I	High School Graduate	1	\$106.98	\$109.97
FAC Mechanical Systems Op II	High School Graduate	2	\$116.13	\$119.38

LCAT	MINIMUM EDUCATION/ CERTIFICATION LEVEL	MINIMUM YEARS OF EXPERIENCE	1/17/2022- 1/16/2023	1/17/2023- 1/16/2024
FAC Pipe Fitter	High School Graduate	3	\$69.94	\$71.90
FAC Plumber	High School Graduate	5	\$76.16	\$78.29
FAC Power Systems Field Service Tech I	Bachelors	7	\$98.73	\$101.50
FAC Power Systems Field Service Tech II	Bachelors	10	\$112.85	\$116.01
FAC Service Tech I	High School Graduate	2	\$58.89	\$60.54
FAC Service Tech II	High School Graduate	4	\$62.85	\$64.61
FAC Service Tech III	High School Graduate	4	\$74.20	\$76.28
FAC Service Superintendent	High School Graduate	2	\$112.78	\$115.93
FAC Warehouse Mgr	High School Graduate	5	\$93.66	\$96.28
FAC Warehouse Worker I	High School Graduate	2	\$77.78	\$79.96
FAC CAD Operator 2	High School Graduate	3	\$62.73	\$64.48
FAC CAD Operator 3	High School Graduate	4	\$74.77	\$76.86
FAC Office Engineer 1	Bachelors	0	\$76.85	\$79.00

LCAT	MINIMUM EDUCATION/ CERTIFICATION LEVEL	MINIMUM YEARS OF EXPERIENCE	1/17/2022- 1/16/2023	1/17/2023- 1/16/2024
FAC Office Engineer 3	Bachelors	5	\$105.33	\$108.28
FAC Project Admin 1	High School Graduate	2	\$45.19	\$46.45
FAC Project Admin 2	High School Graduate	4	\$65.67	\$67.51
FAC Project Manager 1	Bachelors	7	\$126.17	\$129.70
FAC Project Manager 2	Bachelors	10	\$148.39	\$152.54
FAC Project Manager 3	Bachelors	10	\$160.28	\$164.77
FAC Quality Eng 1	Bachelors	0	\$83.02	\$85.34
FAC Quality Eng 2	Bachelors	2	\$88.16	\$90.63
FAC Quality Eng 3	Bachelors	5	\$94.25	\$96.89
FAC Quality Eng 4	Bachelors	7	\$114.34	\$117.54
FAC Quality Manager	Bachelors	10	\$120.80	\$124.18
FAC Safety Manager 1	High School Graduate	6	\$72.89	\$74.94
FAC Safety Manager 2	High School Graduate	8	\$75.07	\$77.17

LCAT	MINIMUM EDUCATION/ CERTIFICATION LEVEL	MINIMUM YEARS OF EXPERIENCE	1/17/2022- 1/16/2023	1/17/2023- 1/16/2024
FAC Safety Division Mgr	Associates	10	\$77.25	\$79.41
FAC Safety Manager	High School Graduate	8	\$79.45	\$81.67
FAC Scheduler	High School Graduate	2	\$81.64	\$83.92
FAC Carpenter	High School Graduate	3	\$52.24	\$53.70
FAC Painter	Formal apprenticeship or equivalent training and experience	4	\$52.24	\$53.70
FAC Locksmith	Completion of a recognized apprenticeship or vocational program for a locksmith	4	\$60.73	\$62.43
Data Center Engineer	High School or GED	4	\$77.11	\$79.26
Data Center Facility Manager	Bachelors, Engineering	5	\$105.15	\$108.09
Data Center Operations - Manager	Professional Certification	10	\$128.51	\$132.11
REM I	Bachelors	3	\$208.22	\$214.05
REM II	Bachelors	5	\$250.24	\$257.24
REM III	Bachelors	9	\$302.63	\$311.10
Planning and Programming Facilitator	Bachelors	2	\$208.22	\$214.05

LCAT	MINIMUM EDUCATION/ CERTIFICATION LEVEL	MINIMUM YEARS OF EXPERIENCE	1/17/2022- 1/16/2023	1/17/2023- 1/16/2024
IT Program/ Project Manager	Bachelors	10	\$181.29	\$186.37
IT Subject Matter Expert	Masters	15	\$329.91	\$339.15
IT Systems Architect	Masters	15	\$232.12	\$238.62
IT Systems Engineer	Bachelors	3	\$145.62	\$149.70
IT Design Engineer	Bachelors	5	\$136.63	\$140.45
IT Jr. Design Engineer	Bachelors	3	\$109.24	\$112.30
IT Network Architect	Masters	15	\$396.21	\$407.30
IT Senior Network Engineer	Bachelors	6	\$154.19	\$158.51
IT Network Engineer	Bachelors	3	\$144.70	\$148.75
IT Jr. Network Engineer	Bachelors	3	\$131.34	\$135.01
IT Senior Security Engineer	Bachelors	6	\$275.61	\$283.33
IT Security Engineer	Bachelors	3	\$151.58	\$155.83
IT Jr. Security Engineer	Bachelors	3	\$97.64	\$100.37

LCAT	MINIMUM EDUCATION/ CERTIFICATION LEVEL	MINIMUM YEARS OF EXPERIENCE	1/17/2022- 1/16/2023	1/17/2023- 1/16/2024
IT Software Architect	Masters	15	\$280.43	\$288.28
IT Senior Software Engineer	Bachelors	6	\$179.22	\$184.24
IT Software Engineer	Bachelors	3	\$142.03	\$146.00
IT Jr. Software Engineer	Bachelors	3	\$100.60	\$103.42
IT Sr. Enterprise Engineer	Bachelors	6	\$213.05	\$219.02
IT Enterprise Engineer	Bachelors	3	\$154.76	\$159.09
IT Senior Requirements Analyst	Bachelors	6	\$216.66	\$222.73
IT Requirements Analyst	Bachelors	5	\$119.24	\$122.58
IT Jr. Requirements Analyst	Bachelors	3	\$79.89	\$82.13
IT Senior Technician	Associates	8	\$155.01	\$159.35
IT Technician	Associates	5	\$104.13	\$107.05
IT Jr. Technician	Associates	3	\$78.84	\$81.05
Senior Program Manager	Bachelors	12	\$249.94	\$256.94

LCAT	MINIMUM EDUCATION/ CERTIFICATION LEVEL	MINIMUM YEARS OF EXPERIENCE	1/17/2022- 1/16/2023	1/17/2023- 1/16/2024
Senior O&M Manager	Bachelors	10	\$197.38	\$202.90
Senior Quality Control Manager	Bachelors	10	\$173.78	\$178.64
Senior Health, Safety & Environmental Inspector	Bachelors	10	\$148.03	\$152.18
Senior Contract Administrator	Bachelors	12	\$160.90	\$165.41
Supervisory Work Control Manager	High School	7	\$170.56	\$175.33
Senior Work Control Manager	High School	7	\$138.38	\$142.25
Senior Finance Manager	Bachelors	10	\$166.27	\$170.92
Senior HR Specialist	High School	7	\$113.71	\$116.89
Cost Estimator	High School	5	\$128.72	\$132.33
Senior Production Control Clerk	High School	5	\$75.36	\$77.47
Production Control Clerk	High School	4	\$55.24	\$56.79
Scheduler, Maintenance	High School	4	\$77.77	\$79.95
Computer Operator I	High School	4	\$55.78	\$57.34

LCAT	MINIMUM EDUCATION/ CERTIFICATION LEVEL	MINIMUM YEARS OF EXPERIENCE	1/17/2022- 1/16/2023	1/17/2023- 1/16/2024
Computer Operator II	High School	6	\$62.22	\$63.96
Computer Operator III	High School	8	\$67.58	\$69.47
Computer Operator IV	High School	10	\$74.02	\$76.09
Computer Operator V	High School	12	\$82.60	\$84.91
Accounting Clerk II	High School	4	\$64.36	\$66.16
General Clerk II	High School	4	\$52.03	\$53.48
General Clerk III	High School	6	\$77.23	\$79.40
Senior Administrative Assistant	High School	5	\$97.61	\$100.35
Order Clerk I	High School	3	\$61.14	\$62.86
Order Clerk II	High School	5	\$63.29	\$65.06
Order Clerk III	High School	7	\$95.47	\$98.14
Building Inspector	High School	5	\$72.94	\$74.99
Supply Technician	High School	3	\$97.08	\$99.80

LCAT	MINIMUM EDUCATION/ CERTIFICATION LEVEL	MINIMUM YEARS OF EXPERIENCE	1/17/2022- 1/16/2023	1/17/2023- 1/16/2024
Procurement Supervisor	High School	6	\$129.80	\$133.43
Procurement Specialist	High School	4	\$105.39	\$108.34
Material Expediter	High School	3	\$76.16	\$78.29
Stock Clerk	High School	3	\$59.53	\$61.20
Shipping/Receiving Clerk	High School	3	\$52.03	\$53.48
Senior Electrician Journeyman	High School	7	\$212.39	\$218.34
Senior Electrician Lead	High School	6	\$148.03	\$152.18
UPS Technician	High School	5	\$163.59	\$168.17
Fire Alarm Helper	High School	3	\$100.83	\$103.66
FAC Fire Alarm Tech III	High School	5	\$126.58	\$130.12
Elevator Journeyman Technician	High School	6	\$320.73	\$329.72
Elevator Technician Helper	High School	2	\$114.78	\$117.99
Pneudralic Systems Mechanic	High School	5	\$86.89	\$89.32

LCAT	MINIMUM EDUCATION/ CERTIFICATION LEVEL	MINIMUM YEARS OF EXPERIENCE	1/17/2022- 1/16/2023	1/17/2023- 1/16/2024
Senior Generator Maintenance Mechanic	High School	5	\$222.05	\$228.26
Specialty Door Mechanic	High School	5	\$126.58	\$130.12
Senior HVAC Mechanic Lead	High School	7	\$202.74	\$208.42
Senior HVAC Mechanic Journeyman	High School	7	\$131.94	\$135.64
Ventilation Equipment Tender	High School	5	\$92.25	\$94.83
Senior Refrigeration Engineer	High School	5	\$209.17	\$215.03
Senior Maintenance Carpenter Lead	High School	5	\$138.38	\$142.25
Senior Maintenance Carpenter	High School	7	\$90.11	\$92.63
Woodworker	High School	5	\$70.26	\$72.23
General Maintenance Worker	High School	2	\$71.87	\$73.88
Senior Locksmith	High School	6	\$102.98	\$105.86
Senior Locksmith Lead	High School	6	\$108.34	\$111.38
Floor Tile Installer - Helper	High School	2	\$100.83	\$103.66

LCAT	MINIMUM EDUCATION/ CERTIFICATION LEVEL	MINIMUM YEARS OF EXPERIENCE	1/17/2022- 1/16/2023	1/17/2023- 1/16/2024
Floor Tile Installer - Journeyman	High School	5	\$126.58	\$130.12
Roofer-Helper	High School	2	\$100.83	\$103.66
Roofer	High School	5	\$150.18	\$154.38
Glass and Security Film Technician	High School	5	\$86.89	\$89.32
Senior Maintenance Painter	High School	7	\$81.52	\$83.81
Senior Maintenance Painter Lead	High School	6	\$87.96	\$90.42
Carpet Layer	High School	4	\$85.82	\$88.22
Sheet Metal Worker, Maintenance	High School	5	\$96.54	\$99.25
Senior Journeyman Plumber	High School	7	\$189.87	\$195.18
Senior Maintenance Plumber	High School	7	\$126.58	\$130.12
Water Treatment Plant Operator	High School	4	\$101.91	\$104.76
Pipefitter, Maintenance	High School	5	\$121.21	\$124.61
Boiler Tender	High School	4	\$122.29	\$125.71

LCAT	MINIMUM EDUCATION/ CERTIFICATION LEVEL	MINIMUM YEARS OF EXPERIENCE	1/17/2022- 1/16/2023	1/17/2023- 1/16/2024
Machinery Maintenance Mechanic	High School	5	\$127.65	\$131.22
Stationary Engineer	High School	5	\$122.29	\$125.71
Subject Matter Expert / Degreed Engineer	Bachelors	10	\$326.10	\$335.23
Maintenance Trades Helper	High School	2	\$52.03	\$53.48
Laborer	High School	1	\$45.05	\$46.31
Laborer, Grounds Maintenance Lead	High School	4	\$73.21	\$75.26
Laborer, Grounds Maintenance	High School	2	\$52.29	\$53.76
Gardener	High School	3	\$65.97	\$67.82
Tree Care Specialist	High School	4	\$43.44	\$44.66
Pest Controller, Lead	High School	4	\$72.14	\$74.16
Pest Controller	High School	2	\$50.42	\$51.83
Housekeeping Aide	High School	1	\$42.91	\$44.11
Dry Cleaner	High School	1	\$35.67	\$36.67

LCAT	MINIMUM EDUCATION/ CERTIFICATION LEVEL	MINIMUM YEARS OF EXPERIENCE	1/17/2022- 1/16/2023	1/17/2023- 1/16/2024
Window Cleaner	High School	1	\$58.19	\$59.82
Snow Removal Operator	High School	1	\$130.43	\$134.09
Snow Removal Supervisor	High School	3	\$135.65	\$139.45
Junior UPS Technician	High School	0	\$142.96	\$146.96
Senior UPS Technician	High School	10	\$187.83	\$193.08
Gas sweeper/ Blower	None	0	\$39.23	\$40.33
Front loader/ Bobcat	None	0	\$127.88	\$131.46
Dump/State body truck	None	0	\$77.01	\$79.16

CBA Rates Specific for Washington, DC IUOE

LCAT	MINIMUM EDUCATION/ CERTIFICATION LEVEL	MINIMUM YEARS OF EXPERIENCE	1/17/2022- 1/16/2023	1/17/2023- 1/16/2024
Engineering Supervisor - CBA	DC 1st Class Engineers license	7	\$128.05	\$131.63
Asst. Chief Engineer (DC 1st) - CBA	DC 3rd Class License	5	\$117.99	\$121.29
Lead Engineer (DC 3rd) - CBA	DC 3rd Class License	3	\$100.63	\$103.45
Engineer (DC 3rd) - CBA	DC 3rd Class License	3	\$97.68	\$100.41
HVAC Mechanic, Lead - CBA	DC Journeyman's license and a CFC certification	4	\$99.61	\$102.40
HVAC Mechanic - CBA	DC Journeyman's license and a CFC certification	4	\$93.42	\$96.04
HVAC Control Tech - CBA	DC Journeyman's license and control system certification	4	\$96.71	\$99.42
Maintenance Mechanic - CBA	High School	4	\$88.94	\$91.43
General Maintenance Worker - CBA	High School	2	\$71.43	\$73.43
Plumber, Lead - CBA	Master plumber's license issued by Washington Suburban Sanitary Commission	4	\$100.06	\$102.86
Plumber - CBA	Journeyman plumber's license issued by Washington Suburban Sanitary Commission	4	\$89.93	\$92.45
Structural, Lead - CBA	High School	3	\$95.86	\$98.54

LCAT	MINIMUM EDUCATION/ CERTIFICATION LEVEL	MINIMUM YEARS OF EXPERIENCE	1/17/2022- 1/16/2023	1/17/2023- 1/16/2024
Carpenter - CBA	High School	3	\$82.23	\$84.54
Painter - CBA	Formal apprenticeship or equivalent training and experience	4	\$79.64	\$81.87
Locksmith - CBA	Completion of a recognized apprenticeship or vocational program for a locksmith	4	\$89.61	\$92.12
Maintenance Helper - CBA	High School	2	\$62.91	\$64.67

OCONUS Location Pricing:

For any OCONUS locations, M.C. Dean will use the Department of State's Standardized Regulations (DSSR) as referenced at: https://aoprals.state.gov/Web920/default.asp?menu_id=95 to adjust our CONUS labor rates for OCONUS locations. Our labor rates would be multiplied by the cost factor based on the location of the service.

Lenel Readers – SIN 334290PACS

Products to be purchased in conjunction with a services-based order only.

SIN	MFR PART NO	Product Description	Price
334290PACS	900NHPTEK000HR-L02	RDR, R10-H, PIVCLASS, SE E, LF OFF, HF STD/SIO/SEOS/FIPS/CAK/DIW, 485HDX, TERM, BLK, A/V OFF, OPT TAMP, OPEN COLL, FIPS 200-BIT, IPM OFF, UART OFF, WIEG OFF, LENEL DIW, LENEL LOGO LBL & INSTALL GUIDE	\$ 108.61
334290PACS	920NHPTEK000HR-L02	RDR, R40-H, PIVCLASS, SE E, LF OFF, HF STD/SIO/SEOS/FIPS/CAK/DIW, 485HDX, TERM, BLK, A/V OFF, OPT TAMP, OPEN COLL, FIPS 200-BIT, IPM OFF, UART OFF, WIEG OFF, LENEL DIW, LENEL LOGO LBL & INSTALL GUIDE	\$ 191.31
334290PACS	921NHPTEK000HT-L02	RDR, RK40-H, PIVCLASS, SE E, LF OFF, HF STD/SIO/SEOS/FIPS/CAK/DIW, 485HDX, TERM, BLK, A/V OFF, OPT	\$ 333.25

		TAMP,OPEN COLL,OSDP TAMP ENABLED, FIPS 200-BIT,KPF, ASCII, BFFRD 1 KEY,IPM OFF,UART OFF,WIEG OFF	
334290PACS	923NPPTEK000NT-L02	RDR, RKCL40-P, PIVCLASS, SE E, CONT LCD, LF OFF, HF STD/SIO/SEOS/FIPS/ CAK/PKI/DIW,485HDX,TERM,BLK,A/V OFF,OPT TAMP OC,FIPS 200-BIT,KPF, ASCII, BFFRD 1 KEY,LCD1F,IPM OFF,UART OFF,WIEG OFF,LENEL LOGO LBL,INSTALL GUIDE	\$ 526.41
334290PACS	900PHPTEK000HU-L02	RDR, RP10-H, PIVCLASS, SE E, LF STD, HF STD/SIO/SEOS/FIPS/CAK/DIW, 485HDX, TERM, BLK, A/V OFF, FIPS 200-BIT, IPM OFF, UART OFF, WIEG OFF, EM4102 32-BIT, LENEL DIW, LENEL LOGO LBL & INSTALL GUIDE	\$ 134.53
334290PACS	920PHPTEK000HU-L02	RDR, RP40-H, PIVCLASS, SE E, LF STD, HF STD/SIO/SEOS/FIPS/CAK/DIW, 485HDX, TERM, BLK, A/V OFF, FIPS 200-BIT, IPM OFF, UART OFF, WIEG OFF, EM4102 32-BIT, LENEL DIW, LENEL LOGO LBL & INSTALL GUIDE	\$ 217.23
334290PACS	921PHPTEK000HV-L02	RDR, RPK40-H,PIVCLASS,SE E,LF STD,HF STD/SIO/SEOS/FIPS/CAK/DIW, 485HDX, TERM, BLK, A/V OFF,OPT TAMP,OPEN COLL,FIPS 200-BIT,KPF, ASCII, BFFRD 1 KEY,IPM OFF, UART OFF, WIEG OFF,LENEL DIW LOGO & GUIDE	\$ 357.93
334290PACS	923PPPTEK000NU-L02	RDR, RPKCL40-P, PIVCLASS, SE E, CONT LCD, LF STD, HF STD/SIO/SEOS/FIPS/CAK/ PKI/DIW, 485HDX,TERM,BLK,A/V OFF,OPT TAMP, OC,FIPS 200-BIT,KPF, ASCII, BFFRD 1 KEY,LCD1F,IPM OFF,UART OFF,WIEG OFF,LENEL LOGO LBL,INSTALL GUIDE	\$ 552.33
334290PACS	923PPRTEK0053W-L002	RDR, RPKCL40-P, PIVCLASS, SE E, CONT LCD, LF STD, HF STD/SIO/SEOS/FIPS/CAK/DIW, 485FDX, TERM, BLK, STD-1, WIEG, LED RD, FLSH GRN, BZR ON, OPT TAMP DISAB, FIPS 200-BIT, LCD 1F, EM4102 34-BIT, BFFRD 1 KEY, DOR COMPL, NO PAR, 8-BIT MSG, LENEL	\$ 552.33
334290PACS	924NPRTEK000K8-L02	RDR, RKCLB40-P, PIVCLASS, SE E, CONT LCD BIO, LF OFF, HF STD/SIO/SEOS/FIPS/CAK/PKI/DIW, 485FDX, TERM, BLK, LED RED, FLSH GRN, BZR ON, KPF, ASCII, BFFRD 1 KEY,LCD 1F,IPM OFF,UART ON,WIEG OFF,LENEL DIW,LENEL LOGO LBL, INSTALL GUIDE	\$ 891.75

334290PACS	923NPRTEK000K8-L02	RDR, RKCL40-P, PIVCLASS, SE E, CONT LCD, LF OFF, HF STD/SIO/SEOS/FIPS/CAK/PKI/DIW,485FDX,TER, BLK,LED RED,FLSH GRN,BZR ON,KPF, ASCII, BFFRD 1 KEY,LCD1F,IPM OFF,UART ON,WIEG OFF,LENEL DIW,LENEL LOGO LBL, INSTALL GUIDE	\$ 526.41
334290PACS	923PPRTEK0053W-L002	RDR, RPKCL40-P, PIVCLASS, SE E, CONT LCD, LF STD, HF STD/SIO/SEOS/FIPS/CAK/DIW, 485FDX, TERM, BLK, STD-1, WIEG, LED RD, FLSH GRN, BZR ON, OPT TAMP DISAB, FIPS 200-BIT, LCD 1F, EM4102 34-BIT, BFFRD 1 KEY, DOR COMPL, NO PAR, 8-BIT MSG, LENEL	\$ 552.33

Ancillary Products – SIN ANCILLARY

Support products offered and ancillary services under SIN ANCILLARY will be purchased by M.C. Dean, Inc. from vendors listed below. In addition to the product costs, M.C. Dean, Inc. adds taxes, special federal and state taxes, freight and handling costs, foreign taxes, and tariffs on products or ancillary services offered under SIN ANCILLARY; these costs may vary based on specific project requirements and geographic area and shall be determined based on the specific project. After compiling these costs, which will be determined based on the destination, we apply a 10% markup on ODCs (Other Direct Cost) to recapture indirect expenses (e.g., accounting; purchasing). The 0.75% Industrial Funding Fee (IFF) is applied to the final product pricing.

Catalog Company	Website
Accu-Tech	www.accu-tech.com
Ace Hardware	www.acehardware.com
Allied Electronics & Automation	www.alliedelec.com
Amazon (US)	www.amazon.com
Amazon (DE)	www.amazon.de
Anixter	www.anixter.com
B&H Photo	www.bhphotovideo.com
Bechtel	www.bechtle.com
CDW	www.cdw.com
CDW-G	www.cdwg.com

Conrad	www.conrad.de
Craftmaster Hardware	www.craftmasterhardware.com
Dell	www.dell.com
Digikey	www.digikey.com
Dominion Electric Supply	www.dominionelectric.com
Full Compass	www.fullcompass.com
Gordon Electric Supply	www.gordonelectricsupply.com
Grainger	www.grainger.com
Graybar	www.graybar.com
Hagar	www.hagar.com
Hilti (US)	www.hilti.com
Hilti (DE)	www.hilti.de
Home Depot	www.homedepot.com
HP	www.hp.com
Humanscale	www.humanscale.com
Insight	www.insight.com
Lexmark	www.lexmark.com
Lowes	www.lowes.com
Mouser	www.mouser.com
Newegg	www.newegg.com
OBO Betterman	www.obo.de
Platt Electric Supply	www.platt.com
Pro AV Warehouse	www.proavwarehouse.com
Provantage	www.provantage.com
Reichelt Elektronik	www.reichelt.de
Rexel	www.rexel.com
Security Engineered Machinery	www.semshred.com
Shepherd Electric Supply	www.shephrdelec.com
Staples	www.staples.com
Taylor Security & Lock	www.taylorsecurity.com
Tech Data	www.techdata.com
Trade Service	www.tradeservice.com
Wurth	www.wuerth.de

SIN	Support Item	Product Description	Price
ANCILLARY	Ice Melt/Materials	50 lb bag Kissner Simple & Save Calcium Chloride Crystals for use around pets and service animals	\$ 55.00
ANCILLARY	Roll off dumpster	30 yard dumpster. Average dimensions 22ft long by 7.5 feet wide by 6 feet high.	\$ 549.99

Lenel Products – SIN ANCILLARY

Products to be purchased in conjunction with a services-based order only.

SIN	PART NUMBER	PRODUCT DESCRIPTION	GSA PRICE
ANCILLARY	LNL-X2210	Intelligent Single Door Controller; powered by PoE, POE+ or 12 VDC @ 1.8A maximum; size 5.5 in. (140 mm) W x 3.63 in. (92 mm) L x 1.33 in. (34 mm) H with bracket; 6 MB standard cardholder flash memory, 50,000 of event memory; maximum of one door, two readers (entry and exit reader, OSDP Secure Channel encryption for one reader with OnGuard 7.2 and up, On-board PoE or PoE+ Ethernet, Dual Path capability, two inputs (supervised/unsupervised) for Door Contact and REX, two outputs (NO/NC), power fault input and cabinet tamper monitors. Reader power 12VDC@ 300mA max. Approvals: FCC Part 15, CE, RoHS, UL 294, UL 1076, CAN/ULC 60839-11-1:2016, CSA C22.2 No. 205-1983, cUL/ORD-C1076	\$785.28
ANCILLARY	LNL-X2220	Intelligent Dual Reader Controller – powered by 12 or 24 VDC @ 500mA (w/o Rdr Power), size (6" (152mm) W x 8" (203mm) L x 1" (25mm)H); 6 MB standard cardholder flash memory, 50,000 of event memory, maximum of 32 devices, On-board Ethernet, Dual Path capability, on-board two door control, OSDP Secure Channel encryption with OnGuard 7.2, Wiegand or F2F; eight inputs, four outputs, cabinet tamper and power fault input monitors. Approvals: FCC Part 15, CE, RoHS, UL 294, UL 1076, CAN/ULC 60839-11-1:2016, CSA C22.2 No. 205-1983, cUL/ORD-C1076	\$1,638.06
ANCILLARY	LNL-X3300	Intelligent System Controller – powered by 12 or 24 VDC @ 250mA, size (5 in.(127mm) Wx6 in.(152.4mm) L x1 in.(25mm) H); 15 MB standard cardholder flash memory, 50,000 Event memory. Two RS-485 ports for downstream devices, maximum of 64 devices, On-board Ethernet, Dual Path capability, cabinet tamper and power fault input monitors. Approvals: FCC Part 15, CE, RoHS, UL 294, UL 1076, CAN/ULC 60839-11-1:2016, CSA C22.2 No. 205-1983, cUL/ORD-C1076	\$1,776.81
ANCILLARY	LNL-X4420	Intelligent Dual Reader Controller – powered by 12 or 24 VDC @ 500mA (w/o Rdr Power), size (6" (152mm) W x 8" (203mm) L x 1" (25mm)H); 16 MB standard cardholder flash memory (96MB cardholder table can be enabled in OnGuard 7.4 or higher), 50,000 of Event memory, Two RS-485 ports for downstream devices, maximum of 64 devices, On-board	\$2,919.09

		Ethernet, Dual Path capability, on-board two door control with OSDP Secure Channel encryption or Wiegand; eight inputs, four outputs, cabinet tamper and power fault input monitors. Approvals: FCC Part 15, CE, RoHS, UL 294, UL 1076, CAN/ULC 60839-11-1:2016, CSA C22.2 No. 205-1983, cUL/ORDC1076	
ANCILLARY	LNL-1300-S3	Single Reader Interface Module (Series 3 - Supports OSDP Readers) – 12/24 VDC, 1 Reader interface, W/M, 2 inputs and 2 outputs relays (one of each, 2A and 5A) and cabinet tamper pigtail , RoHS, CE, C-Tick and UL294 certified	\$279.00
ANCILLARY	LNL-1320-S3	Dual Reader Interface Module (Series 3 –Supports OSDP Readers) – 12/24 VDC, 2 Reader interface, W/M, 8 inputs, 6 (5A) form C relays , RoHS, CE, C-Tick and UL294 certified	\$756.38
ANCILLARY	LNL-1100-S3	Input Control Module (Series three) –12/24 VDC, 16 zone input monitor module, (32) 1K resistors (with 2 programmable output relays) , RoHS, CE, C-Tick and UL294 certified	\$646.80
ANCILLARY	LNL-1200-S3	Output Control Module (Series three) – 12/24 VDC, 16 relay output control module , RoHS, CE, C-Tick and UL294 certified	\$646.80
ANCILLARY	LNL-8000	Star Multiplexer –12 VDC, (8) Downstream RS-485 2-wire ports or (4) RS-485 4-wire ports.	\$499.54
ANCILLARY	LNL-CK	Command Display terminal Lenel Command Keypad - 32-character back-lit LCD display with a 16-position keypad, supports both direct RS-485 communication with the ISC and Wiegand TTL output, supports one external Wiegand input, 12VDC±15% @175mA (keypad only). C-Tick Certified	\$319.68
ANCILLARY	SWS-ADV	OnGuard ADV Server Software License – OnGuard Server software license includes: System Administration; Alarm Monitoring; Map Designer; License Server; Comm. Server; Video Verify Support; E-mail Support; Guard Tour; Login Driver; Account Linkage; support for up to 64 card access readers and first year support plan for new systems. (SOFTWARE IS SUPPORTED ON PC-CONFIG#3 PLATFORM)	\$2,855.94
ANCILLARY	SWS-ADVI	OnGuard ADVI Server Software License- OnGuard Server software license includes; System Administration; Alarm Monitoring; Map Designer; License Server; Comm. Server; Video Verify Support; E-mail Support; Guard Tour; Login Driver; Account Linkage; support for up to 64 card access readers; ID Credential Center Application; Badge Designer Application; Image Capture; ID Printing; License Server; Cardholder Image Export; Login Driver; Enhanced Imaging Option (ChromaKey and Ghosting) and first year support plan for new systems. (SOFTWARE IS SUPPORTED ON PC-CONFIG#3 PLATFORM)	\$6,944.32
ANCILLARY	SWC-ADV	OnGuard ADV Client Software License – OnGuard Client software license includes; System Administration; Alarm Monitoring; Map Designer and Login Driver.	\$2,291.07
ANCILLARY	SWC-ADVI	OnGuard ADVI Client Software License – OnGuard Client software license includes; System Administration; Alarm Monitoring; Map Designer; Login Driver; ID Credential Center Application; Badge Designer Application; Image Capture; ID Printing; Cardholder Image Export and Enhanced Imaging Option (ChromaKey and Ghosting). (SOFTWARE IS SUPPORTED ON PCCONFIG# 6 PLATFORM)	\$5,285.27
ANCILLARY	SWS-PRO	OnGuard PRO Server Software License – OnGuard Server software license includes; System Administration; Alarm Monitoring; Map Designer; License Server; Comm. Server; Video Verify Support; E-mail Support; Guard Tour; Login Driver; Account Linkage; support for up to 128 card access readers and first year support plan for new systems.	\$11,867.61
ANCILLARY	SWS-PROI	OnGuard PROI Server Software License – OnGuard Server software license includes; System Administration; Alarm Monitoring; Map Designer; License Server; Comm. Server; Video Verify Support; E-mail Support; Guard Tour; Login Driver; Account Linkage; support for up to 128 card	\$18,996.27

		access readers; ID Credential Center Application; Badge Designer Application; Image Capture; ID Printing; License Server; Cardholder Image Export; Login Driver; Enhanced Imaging Option (Chromakey and Ghosting) and first year support plan for new systems. (SOFTWARE IS SUPPORTED ON PC-CONFIG#5 PLATFORM)	
ANCILLARY	SWC-ADV	OnGuard ADV Client Software License – OnGuard Client software license includes; System Administration; Alarm Monitoring; Map Designer and Login Driver.	\$2,291.07
ANCILLARY	SWC-ADVI	OnGuard ADVI Client Software License – OnGuard Client software license includes; System Administration; Alarm Monitoring; Map Designer; Login Driver; ID Credential Center Application; Badge Designer Application; Image Capture; ID Printing; Cardholder Image Export and Enhanced Imaging Option (Chromakey and Ghosting). (SOFTWARE IS SUPPORTED ON PCCONFIG# 6 PLATFORM)	\$5,285.27
ANCILLARY	SWS-IDES	OnGuard IDES Server Software – OnGuard Server software license includes; ID CredentialCenter Application; Badge Designer Application; Image Capture; ID Printing; License Server;Cardholder Image Export; Login Driver; Enhanced Imaging Option (Chromakey and Ghosting)and first year support plan for new systems. (SOFTWARE IS SUPPORTED ON PC-CONFIG#3 PLATFORM)	\$1,098.14
ANCILLARY	SWC-IDES	OnGuard IDES Client Software License – OnGuard Client software license includes; ID Credential Center Application; Badge Designer Application; Image Capture; ID Printing; Enhanced Imaging Option (Chromakey and Ghosting) and Login Driver. (SOFTWARE IS SUPPORTED ON PC-CONFIG#6 PLATFORM)	\$421.24
ANCILLARY	SWS-IDADV	OnGuard IDADV Server Software – OnGuard Server software license includes; ID Credential Center Application; Badge Designer Application; Image Capture; ID Printing; License Server; Cardholder Image Export; Login Driver; Enhanced Imaging Option (Chromakey and Ghosting) and first year support plan for new systems. (SOFTWARE IS SUPPORTED ON PC-CONFIG#3 PLATFORM)	\$3,262.80
ANCILLARY	SWC-IDADV	OnGuard IDADV Client Software License – OnGuard Client software license includes; ID Credential Center Application; Badge Designer Application; Image Capture; ID Printing; Enhanced Imaging Option (Chromakey and Ghosting) and Login Driver. (SOFTWARE IS SUPPORTED ON PC-CONFIG#6 PLATFORM)	\$2,783.82
ANCILLARY	SWS-ENTMAS-LT	OnGuard Enterprise Lite Server Software License – OnGuard Server software license includes; System Administration; Alarm Monitoring; Map Designer; License Server; Comm. Server; Replication Administration; Database Segmentation; Video Verify Support; E-mail Support; Guard Tour; Login Driver; Account Linkage; support for up to 64 local card access readers; ID Credential Center Application; Badge Designer Application; Image Capture; ID Printing; License Server; Cardholder Image Export; Login Driver; Enhanced Imaging Option (Chromakey and Ghosting); support for up 8 Regions and first year support plan for new systems. NOTE: support for card access readers are based on regional server(s) card reader capacities with a maximum number of 512 readers total per Master-LT. MUST BE SENT TO LENELS2 FOR CONFIGURATION (SOFTWARE IS SUPPORTED ON PC-CONFIG#5 PLATFORM)	\$23,751.42
ANCILLARY	SWS-ENTMAS1	OnGuard Enterprise Server Software License - OnGuard Server software license includes; System Administration; Alarm Monitoring; Map esigner; License Server; Comm. Server; Replication Administration; Database Segmentation; Video Verify Support; E-mail Support; Guard Tour; Login Driver; Account Linkage; support for up to 128 local card access readers; ID Credential Center Application; Badge Designer Application; Image Capture; ID Printing; License Server; Cardholder Image Export; Login Driver; Enhanced Imaging Option (Chromakey and Ghosting); support for up	\$41,913.31

		10 Regions and first year support plan for new systems. MUST BE SENT TO LENEELS2 FOR CONFIGURATION (SOFTWARE IS SUPPORTED ON PCCONFIG# 5 PLATFORM)	
ANCILLARY	SWS-ENTMAS2	Additional Regional Server Licenses for ENTMAS1 Master Servers - Allows for an additional 10 regions to be added to the Enterprise Master.[MAX of 1 purchase before Professional Engineering Services needs to be engaged about your system]	\$26,546.18
ANCILLARY	SWS-MASLT2	Additional Regional Server Licenses for ENTMAS-LT Master Servers - Allows for 8 additional regions (16 total) to be added to the Enterprise Master (ENTMAS-LT only).[MAX OF 1 Purchase for ENTMAS-LT systems]	\$12,572.37
ANCILLARY	SWS-ENTREG-SM	OnGuard Regional SM [small] Server Software License - OnGuard Server software license includes; System Administration; Alarm Monitoring; Map Designer; License Server; Comm. Server; Replication Administration; Database Segmentation; Video Verify Support; E-mail Support; Guard Tour; Login Driver; Account Linkage; support for up to 16 card access readers [optional 16 reader upgrade available]; ID Credential Center Application; Badge Designer Application; Image Capture; ID Printing; License Server; Cardholder Image Export; Login Driver; Enhanced Imaging Option (ChromaKey and Ghosting) and first year support plan for new systems. (SOFTWARE IS SUPPORTED ON PC-CONFIG#3 PLATFORM)	\$4,188.09
ANCILLARY	SWS-ENTREG-LT	OnGuard Regional Lite Server Software License - OnGuard Server software license includes; System Administration; Alarm Monitoring; Map Designer; License Server; Comm. Server; Replication Administration; Database Segmentation; Video Verify Support; E-mail Support; Guard Tour; Login Driver; Account Linkage; support for up to 64 card access readers; ID Credential Center Application; Badge Designer Application; Image Capture; ID Printing; License Server; Cardholder Image Export; Login Driver; Enhanced Imaging Option (ChromaKey and Ghosting) and first year support plan for new systems. (SOFTWARE IS SUPPORTED ON PCCONFIG# 5 PLATFORM)	\$15,367.13
ANCILLARY	SWS-ENTREG1	OnGuard Regional Dedicated Server Software License - OnGuard Server software license includes; System Administration; Alarm Monitoring; Map Designer; License Server; Comm. Server; Replication Administration; Database Segmentation; Video Verify Support; E-mail Support; Guard Tour; Login Driver; Account Linkage; support for up to 128 card access readers; ID Credential Center Application; Badge Designer Application; Image Capture; ID Printing; License Server; Cardholder Image Export; Login Driver; Enhanced Imaging Option (ChromaKey and Ghosting) and first year support plan for new systems.(SOFTWARE IS SUPPORTED ON PC-CONFIG#5 PLATFORM)	\$22,349.98
ANCILLARY	SWC-VIEW1ES	View Client Workstation Software License - Single License Pack	\$210.62
ANCILLARY	SWC-VIEW1ADV	View Client Workstation Software License - Single License Pack (*)	\$1,049.05
ANCILLARY	SWC-VIEW5	View Client Workstation Software License - 5 License Pack (*)	\$3,495.48
ANCILLARY	SWC-VIEW10	View Client Workstation Software License - 10 License Pack (*)	\$6,286.19
ANCILLARY	SWC-VIEW25	View Client Workstation Software License - 25 License Pack (*)	\$13,973.80
ANCILLARY	SWC-VIEW50	View Client Workstation Software License - 50 License Pack (*)	\$24,456.18
ANCILLARY	SWC-VIEW100	View Client Workstation Software License - 100 License Pack (*)	\$34,938.56

ANCILLARY	MM-PLUS-ES	Lenels2 Magic Monitor PLUS license for OnGuard ES systems	\$199.45
ANCILLARY	MM-PLUS-ADV	Lenels2 Magic Monitor PLUS license for OnGuard ADV systems	\$1,151.26
ANCILLARY	MM-PLUS-PROENT	Lenels2 Magic Monitor PLUS license for OnGuard PRO and ENT systems. Each Magic Monitor client can only connect to a single OnGuard server (Region or Master)	\$2,560.50
ANCILLARY	MM-CAM-1CH	Magic Monitor IP camera license for third-party video management systems not licensed in OnGuard. Sold per Magic Monitor Installation. Hardware ID required for each Magic Monitor Installation. Requires Magic Monitor PLUS License.	\$100.10
ANCILLARY	SWG-1225	DataExchange – Global Data Import/Export Utility	\$5,241.19
ANCILLARY	SWG-1210	OnGuard FormsDesigner (User definable Fields)	\$2,089.99
ANCILLARY	SWG-1360	OnGuard support for Remote Desktop Protocol; Citrix Support [see compatibility chart for versions] and Terminal Services for 32ES, ADV, and PRO Level solutions [DOES NOT INCLUDE CITRIX].	\$2,786.66
ANCILLARY	SWG-1370	OnGuard support for Remote Desktop Protocol; Citrix Support [see compatibility chart for versions] and Terminal Services for any Enterprise level solutions [DOES NOT INCLUDE	\$5,581.42
ANCILLARY	SWG-1240	Database Segmentation [included with all Regional and Master server licenses]	\$4,084.43
ANCILLARY	SWG-1330	Multiple instances of Alarm Event Monitoring on a single client workstation - This license bit allows the customer to run multiple instances of Alarm Monitoring on the same workstation. Its purpose is to allow customers to take advantage of having separate instances of Alarm Monitoring running on multiple client machines. The customer can then use these instances to monitor separate monitor zones within the same system [database] or to monitor zones within the same Enterprise system but different regional databases. [each Alarm Monitoring instance uses an additional client] Note: Multi-regional monitoring is available in OnGuard 6.0 and higher without this license option. Multi-Regional monitoring is not Multiple instances of Alarm Monitoring; it instead allows for monitor zones to be created via Alarm Monitoring to monitor other regions.	\$2,717.68
ANCILLARY	IPC-311-256	Partner Integration license, support, upgrades with 256 readers or less.	\$5,760.32
ANCILLARY	IPC-311-512	Partner Integration license, support, upgrades with 512 readers or less.	\$8,640.48
ANCILLARY	IPC-311-1024	Partner Integration license, support, upgrades with 1024 readers or less.	\$11,520.64
ANCILLARY	IPC-311-1536	Partner Integration license, support, upgrades with 1536 readers or less.	\$13,824.78
ANCILLARY	IPC-311-2048	Partner Integration license, support, upgrades with 2048 readers or less	\$17,280.97
ANCILLARY	OCB-A-ADV-1	OnGuard Browser client bundle for ADV systems only.	\$2,660.00
ANCILLARY	OCB-A-PROENT-1	OnGuard Browser client bundle for ADV systems only.	\$2,660.00
ANCILLARY	SWG-OAR-PRO-A	OnGuard Advanced Reporting License for OnGuard PRO Tier 1 or 2 systems	\$1,536.30
ANCILLARY	SWG-OAR-PRO-B	OnGuard Advanced Reporting License for OnGuard PRO Tier 3 or 4 systems	\$2,694.50
ANCILLARY	SWG-OAR-PRO-C	OnGuard Advanced Reporting License for OnGuard PRO Tier 5 systems	\$5,004.73

ANCILLARY	UPC-OCBE2OCBA	Upgrade OCB-A-ES-1 to OCB-A-ADV-1 when upgrading from 32ES to ADV OnGuard system. One required for each existing OCB-A-ES-1 license	\$2,452.80
ANCILLARY	UPC-OCBE2OCBA	Upgrade OCB-A-ES-1 to OCB-A-PROENT-1 when upgrading from 32ES to PRO or ENT OnGuard system. One required for each existing OCB-A-ES-1 license	\$2,452.80
ANCILLARY	UPS-ID64I	OnGuard IDADV to OnGuard ADVI: IDADV TO ADVI Upgrade, Adds reader count of 64, Adds QTY of 1 for Sys Admin, Map Designer and Alarm Monitoring.	\$4,528.32
ANCILLARY	UPS-6464I	OnGuard ADV to OnGuard ADVI: ADV TO ADVI Upgrade, Adds QTY of 1 to ID Credential Center options.	\$5,030.57
ANCILLARY	UPS-64PRO	OnGuard ADV to OnGuard PRO: ADV TO PRO Upgrade, Increases reader count by 64	\$10,895.52
ANCILLARY	UPS-64PROI	OnGuard ADVI to OnGuard PROI: ADVI TO PROI Upgrade, Increases reader count by 64	\$14,411.24
ANCILLARY	UPS-IDPRO	OnGuard IDADV to OnGuard IDPRO: IDADV TO IDPRO Upgrade	\$10,385.17
ANCILLARY	UPS-IDPROI	OnGuard IDPRO to OnGuard PROI: IDPRO TO PROI Upgrade, Adds reader count of 128, Adds QTY of 1 for Sys Admin, Map Designer and Alarm Monitoring.	\$8,554.40
ANCILLARY	UPS-PROI	OnGuard PRO to OnGuard PROI: PRO TO PROI Upgrade, Adds QTY of 1 to ID Credential Center options.	\$8,554.40
ANCILLARY	UPS-SMREG	Enterprise Regional SM server to Enterprise Regional Lite Server: Regional Small to Regional Lite Upgrade, Increases reader count by 48	\$13,414.85
ANCILLARY	UPS-LTREG1	Enterprise Regional Lite server to Enterprise Regional Server: Regional Lite to Regional Server Upgrade, Increases reader count by 64	\$8,384.28
ANCILLARY	UPS-LTMAS1	Enterprise Master Lite server to Enterprise Master Server: Enterprise Master Lite to Enterprise Master Upgrade, Increases reader count by 64, Bumps max number of regions allowed by 2 more	\$21,799.13
ANCILLARY	UPC-ADVADVI	OnGuard ADV to OnGuard ADVI [when using UPS-6464I]	\$3,519.78
ANCILLARY	UPC-IDADVI	OnGuard IDADV to OnGuard ADVI [when using UPS-ID64I]	\$2,349.22
ANCILLARY	32ES-32RUP	32 Access Readers upgrade for all 32ES systems (max of 64 readers).	\$1,397.38
ANCILLARY	64ADV-64RUP	64 Access Readers upgrade for all ADV systems (max of 256 readers).	\$2,227.71
ANCILLARY	PRO-64RUP	64 Access Readers upgrade for all PRO systems, no maximum on number of readers.	\$2,365.14
ANCILLARY	REGSM-16RUP	16 Access Readers upgrade for any OnGuard Enterprise Regional SM systems, maximum of 32 readers.	\$809.77
ANCILLARY	SWS-ADV-REDU	OnGuard ADV Redundant Server Software License – Support for up to 64 card access readers and first year support plan for new systems.	\$2,855.94
ANCILLARY	c	OnGuard ADVI Redundant Server Software License - Support for up to 64 card access readers; ID Credential Center Application; Badge Designer Application; Image Capture; ID Printing; License Server; Cardholder Image Export; Login Driver; Enhanced Imaging Option (Chromakey and Ghosting) and first year support plan for new systems.	\$6,944.32
ANCILLARY	SWS-PRO-REDU	OnGuard PRO Redundant Server Software License – Support for up to 128 card access readers and first year support plan for new systems.	\$11,867.61
ANCILLARY	SWS-PROI-REDU	OnGuard PROI Redundant Server Software License – Support for up to 128 card access readers; ID Credential Center Application; Badge Designer Application; Image Capture; ID Printing; License Server; Cardholder Image Export; Login Driver; Enhanced Imaging Option (Chromakey and Ghosting) and first year support plan for new systems.	\$18,526.10

ANCILLARY	SWS-ENTMAS-LT-REDU	OnGuard Enterprise Master Lite Redundant Server Software License – Support for up to 64 local card access readers; ID Credential Center Application; Badge Designer Application; Image Capture; ID Printing; License Server; Cardholder Image Export; Login Driver; Enhanced Imaging Option (Chromakey and Ghosting); support for up to 8 Regions and first year support plan for new systems. NOTE: support for card access readers are based on regional server(s) card reader capacities with a maximum number of 512 readers total per Master-LT.	\$23,163.54
ANCILLARY	SWS-ENTMAS1-REDU	OnGuard Enterprise Master Redundant Server Software License - Support for up to 128 local card access readers; ID Credential Center Application; Badge Designer Application; Image Capture; ID Printing; License Server; Cardholder Image Export; Login Driver; Enhanced Imaging Option (Chromakey and Ghosting); support for up to 10 Regions and first year support plan for new systems.	\$40,875.90
ANCILLARY	SWS-ENTREG-SM-REDU	OnGuard Enterprise Regional SM Redundant Server Software License - Support for up to 16 card access readers [optional 16 reader upgrade available]; ID Credential Center Application; Badge Designer Application; Image Capture; ID Printing; License Server; Cardholder Image Export; Login Driver; Enhanced Imaging Option (Chromakey and Ghosting) and first year support plan for new systems.	\$4,084.43
ANCILLARY	SWS-ENTREG-LT-REDU	OnGuard Enterprise Regional Lite Redundant Server Software License - Support for up to 64 card access readers; ID Credential Center Application; Badge Designer Application; Image Capture; ID Printing; License Server; Cardholder Image Export; Login Driver; Enhanced Imaging Option (Chromakey and Ghosting) and first year support plan for new systems.	\$14,986.78
ANCILLARY	SWS-ENTREG1-REDU	OnGuard Regional Redundant Server Software License -Support for up to 128 card access readers; ID Credential Center Application; Badge Designer Application; Image Capture; ID Printing; License Server; Cardholder Image Export; Login Driver; Enhanced Imaging Option (Chromakey and Ghosting) and first year support plan for new systems.	\$21,796.80
ANCILLARY	SUSP-ENT-MAS	Enterprise Master SUSP PLAN - Covers Enterprise Master Server	\$8,721.87
ANCILLARY	SUSP-ENT-REG-TR-1	Enterprise Reg. SUSP PLAN-Tier 1: 128-256 Readers. Covers ENTREG1 Systems	\$3,539.31
ANCILLARY	SUSP-ENT-REG-TR-2	Enterprise Reg. SUSP PLAN-Tier 2; 257-512 Readers. Covers ENTREG1 Systems	\$5,451.17
ANCILLARY	SUSP-ENT-REG-TR-3	Enterprise Reg. SUSP PLAN-Tier 3; 513-1024 Readers. Covers ENTREG1 Systems	\$7,355.13
ANCILLARY	SUSP-ENT-REG-TR-4	Enterprise Reg SUSP PLAN-Tier 4; 1025-2048 Readers. Covers ENTREG1 Systems	\$11,170.95
ANCILLARY	SUSP-ENT-REG-TR-5	Enterprise Reg SUSP PLAN-Tier 5; 2049 or more Readers. Covers ENTREG1 Systems	\$16,353.52
ANCILLARY	1386LGGMN	ISO Prox II Graphics Quality Both Sides - standard card includes, 26 bit format, plain white glossy finish for direct card printing on front and back, printed ID number and No gaps in card sequence [Min Order QTY of 100]	\$6.11

SIN 511210 – Software Licenses

M.C. Dean, Inc.'s InfraLink platform is an integrated solution combining asset management, interactive access to engineering documentation, system performance tracking, and a range of on-demand and planned maintenance management capabilities.

SIN	Description	Pricing	Unit
511210	Infralink Software Licenses - Average Daily Users - 50-100	\$119,969.77	Annual
511210	Infralink Software Licenses - Average Daily Users - 101-150	\$187,952.64	Annual
511210	Infralink Software Licenses - Average Daily Users - 151-200	\$245,738.58	Annual
511210	Infralink Software Licenses - Average Daily Users - 201-250	\$294,856.08	Annual
511210	Infralink Software Licenses - Average Daily Users - 251-300	\$336,605.56	Annual
511210	Infralink Software Licenses - Average Daily Users - 301-350	\$372,092.92	Annual
511210	Infralink Software Licenses - Average Daily Users - 351-400	\$402,257.17	Annual
511210	Infralink Software Licenses - Average Daily Users - 401-450	\$427,897.13	Annual
511210	Infralink Software Licenses - Average Daily Users - 451-500	\$449,691.14	Annual
511210	Infralink Software Licenses - Average Daily Users - 501-550	\$468,215.86	Annual
511210	Infralink Software Licenses - Average Daily Users - 551-600	\$486,740.57	Annual
511210	Infralink Software Licenses - Average Daily Users - 601-650	\$505,265.29	Annual
511210	Infralink Software Licenses - Average Daily Users - 651-700	\$523,790.01	Annual
511210	Infralink Software Licenses - Average Daily Users - 701-750	\$542,314.72	Annual
511210	Infralink Software Licenses - Average Daily Users - 751-800	\$560,839.44	Annual

511210	Infralink Software Licenses - Average Daily Users - 801-850	\$579,364.15	Annual
511210	Infralink Software Licenses - Average Daily Users - 851-900	\$597,888.87	Annual
511210	Infralink Software Licenses - Average Daily Users - 901-950	\$616,512.32	Annual
511210	Infralink Software Licenses - Average Daily Users - 951-1000	\$634,938.30	Annual

APPENDIX B: LABOR CLASSIFICATIONS & JOB DESCRIPTIONS

Program Manager

Responsible for large projects or a significant segment of a large complex program. Translates customer requirements into formal agreements and plans that culminate in customer acceptance of results while meeting business objectives. Works with customer to identify business requirements and develops the proposed solution. Subsequently leads a team in initiating, planning, controlling, executing, and closing tasks of a project or segment of a project to produce the delivered solution. Executes a wide range of process activities beginning with the initial technical response to an order through development, test and final delivery. Formulates partnerships between customer, suppliers, and staff. Anticipates potential project related problems. Uses refined techniques for identifying, eliminating, or mitigating solution, project, and business risks. Understands customer, industry, and business trends. Applies this understanding to meet project objectives. As appropriate, challenges the validity of given procedures and processes to enhance or improve them. Analyzes information and situations and implements actions, independently or through the management team, to ensure project objectives are met. Analyzes new and complex project related problems and creates innovative solutions involving finance, scheduling, technology, methodology, tools, and solution components.

Project Manager 3

Responsible for medium to large projects. Translates customer requirements into formal agreements and plans that culminate in customer acceptance of results while meeting business objectives. Works with customer to identify business requirements and develops the proposed solution. Subsequently leads a team in initiating, planning, controlling, executing, and closing tasks of a project or segment of a project to produce the delivered solution. Executes a wide range of process activities beginning with the initial technical response to an order through development, test and final delivery. Formulates partnerships between customer, suppliers, and staff. Anticipates potential project related problems. Uses refined techniques for identifying, eliminating, or mitigating solution, project, and business risks. Understands customer, industry, and business trends. Applies this understanding to meet project objectives. As appropriate, challenges the validity of given procedures and processes to enhance or improve them. Analyzes information and situations and implements actions, independently or through the management team, to ensure project objectives are met. Analyzes new and complex project related problems and creates innovative solutions involving finance, scheduling, technology, methodology, tools, and solution components.

Project Manager 2

Responsible for small to medium size projects. Translates customer requirements into formal agreements and plans that culminate in customer acceptance of results while meeting business objectives. Works with customer to identify business requirements and develops the proposed solution. Subsequently leads a team in initiating, planning, controlling, executing, and closing tasks of a project or segment of a project to produce the delivered solution. Executes a wide range of process activities beginning with the initial technical response to an order through development, test and final delivery. Formulates partnerships between customer, suppliers, and staff. Anticipates potential project related problems. Uses refined techniques for identifying, eliminating, or mitigating solution, project, and business risks. Understands customer, industry, and business

trends. Applies this understanding to meet project objectives. As appropriate, challenges the validity of given procedures and processes to enhance or improve them. Analyzes information and situations and implements actions, independently or through the management team, to ensure project objectives are met. Analyzes new and complex project related problems and creates innovative solutions involving finance, scheduling, technology, methodology, tools, and solution components.

Subject Matter Expert (IT)

Provides technical knowledge and skill in using specialized applications in the areas specified in the order. Experienced in the operational environment and using high-level functional systems analysis, design, integration, documentation, and implementation methodologies on complex problems that require in-depth knowledge of the subject matter for effective implementation. Participates as needed in all phases of engineering design and software development with emphasis on the planning, analysis, testing, integration, documentation and presentation phases. Applies principles, methods and knowledge of the functional area of expertise to specific order requirements and in the process uses advanced mathematical principles and methods to arrive at practical, innovative solutions. Designs and prepares technical reports, data bases, studies, and related documentation, makes charts and graphs to record results. Prepares and delivers presentations and briefings as required by the order.

Systems Architect (IT)

Provides executive level support to customers in identifying, compiling, and analyzing information transfer requirements and determining how these requirements can best be met. Architects, designs, develops and executes proven approaches to requirements analysis following I.E.E.E. and other applicable specifications, to provide customers with: confluence of understanding between User and Technical communities; bi-directional feedback mechanism for User and Technical personnel discussions and consensus; a framework for early identification and resolution of system design problems; a foundation for qualifying and quantifying system characteristics that meet customer needs; a baseline for comprehensive system capabilities and a basis for determining system completion parameters; a road map for system planning, design and development; and a mechanism for capturing, documenting and auditing requirements changes. Provides top-level briefings, analyses and recommendations to executive decision makers on the structure, format, approach and anticipated results and performance metrics associated with requirements determination processes.

Senior Network Engineer (IT)

Must have proven technical ability in LAN/WAN design and implementation. Excellent understanding of TCP/IP and routing protocols is needed. Attention to detail is required in managing complex changes to customer networks. Act as the technology lead for designing the network and security platforms and technical lead supporting the network. Other responsibilities include security audits, assessments, design, implementation and configuration. Provides leadership, direction and vision in the support and deployment of network and security technologies. Works with project managers, business analysts and contractors on security solutions to address customer's security requirements. Researches and provides information on security related solutions. Performs software evaluations and testing of new and existing security solutions.

Network Engineer (IT)

Must have proven technical ability in LAN/WAN design and implementation. Excellent understanding of TCP/IP and routing protocols is needed. Attention to detail is required in managing complex changes to customer networks. Responsibilities include security audits, assessments, design, implementation and configuration. Provides support and deployment of network and security technologies. Works with project managers, business analysts and contractors on security solutions to address customer's security requirements. Researches and provides information on security related solutions. Performs software evaluations and testing of new and existing security solutions.

Jr. Network Engineer (IT)

Must have proven technical ability in LAN/WAN design and implementation. Excellent understanding of TCP/IP and routing protocols is needed. Attention to detail is required in managing complex changes to customer networks. Responsibilities include security audits, assessments, design, implementation and configuration. Provides support and deployment of network and security technologies.

Sr. Design Engineer

Provides expert support, analysis, and oversight in the design, development, deployment and integration of Enterprise Applications and technology solutions. Has broad expertise in hardware, software, and support systems for general and specialized applications, to ensure seamless communication and use of data across legacy systems and different vendor applications. Provides technical analysis and implementation support for products and solutions designs in multi-vendor, heterogeneous environments. Functions as task lead providing guidance and training for less experienced engineers.

System Engineer II

Designs, develops, and implements systems engineering solutions that meet the customer's security requirements. Evaluates existing systems to identify deficiencies and performance issues. Experienced with the systems engineering architectures and planning that must be undertaken to adequately define requirements, acquire, and implement systems, equipment and software. Consults with users, managers, and staff to ensure that deficiencies and alternatives have been fully identified and that the solution meets requirements. May function as task lead providing guidance and training for less experienced engineers.

System Engineer I

Designs, develops, and implements systems engineering solutions that meet the customer's security requirements. Evaluates existing systems to identify deficiencies and performance issues. Experienced with the systems engineering architectures and planning that must be undertaken to adequately define requirements, acquire, and implement systems, equipment and software. Consults with users, managers, and staff to ensure that deficiencies and alternatives have been fully identified and that the solution meets requirements.

Tech Specialist

An internal consultant on multiple systems and their functioning including system integration, infrastructure, and troubleshooting. Applies advanced principles, and technical insight into usually complex and new to M.C. Dean problems and provides solutions that are state of the art.

Programmer III

Responsible for interfacing with customers to ensure systems are programmed to meet the customer specifications and provide advanced level technical support. Develops programming schemes and planning documentation to ensure all requirements are met. Solves programming and system problems of difficult scope and complexity. Functions as a task lead to provide oversight and training of less experienced programmers.

Programmer II

Responsible for interfacing with customers to ensure systems are programmed to meet the customer specifications and provide advanced level technical support. Solves programming and system problems of moderate scope and complexity.

System Admin II

Responsible for providing initial diagnostic troubleshooting and determining root cause of complex network and systems problems. General use and/or application of basic principles, theories, and concepts. Solves problems of difficult scope and complexity.

System Admin I

Responsible for providing initial diagnostic troubleshooting and determining root cause of simple network and systems problems. Limited use and/or application of basic principles, theories, and concepts. Solves problems of limited to moderate scope and complexity.

Technician III

Monitors and responds to complex hardware, software, and network problems using a variety of hardware and software testing tools and techniques. Provides primary interface with contractor's technical support groups or provides internal analysis and support to ensure appropriate notification during outages or periods of degraded system performance. Requires extensive knowledge of communications hardware and software in multi-vendor environment. May function as task lead providing guidance and training for less experienced technicians.

Technician II

Monitors and responds to complex hardware, software, and network problems using a variety of hardware and software testing tools and techniques. Provides primary interface with contractor's technical support groups or provides internal analysis and support to ensure appropriate notification during outages or periods of degraded system performance. Requires extensive knowledge of communications hardware and software in multi-vendor environment. May function as task lead providing guidance and training for less experienced technicians.

Technician I

Monitors and responds to complex hardware, software, and network problems using a variety of hardware and software testing tools and techniques. Provides primary interface with contractor's technical support groups or provides internal analysis and support to ensure appropriate notification during outages or periods of degraded system performance. Requires knowledge of communications hardware and software in multi-vendor environment.

FAC Electrical Apprentice I

Responsible for assisting with the installation of systems and equipment as directed by their supervisor. Activities are directly supervised.

FAC Electrical Apprentice II

Responsible for using previously learned skills and continuing to develop by taking a more active role in installation, systems and equipment responsibility. Subject to deadlines and heavy workloads. Develops solutions to problems of limited scope.

FAC Electrical Apprentice III

Responsible for acquiring higher level electrical skills while refining level 1 and 2 skills. Provides solutions to a variety of problems.

FAC Electrical Apprentice IV

Responsible for beginning to lead and mentor junior apprentices in the execution of job tasks while mastering earlier developed skills in preparation of becoming a Journeyman electrician.

FAC Building Operations Center Manager

Responsible for providing a 24/7/365 qualified, capable, and trained BOC operations staff that can operate (monitor and control) and update all BOC system (s) control applications maximizing the efficiency of the system being controlled and revising the operating controls as needed to accommodate changes in the facility operations or to correct identified problems/ inefficiencies.

FAC Building Operation Center Specialists

Assists the BOC Manager in Manages the integration, reliability and functionality for all the building control system(s) that comprise the BOC that include the Delta Controls Building Automation Systems (BAS) and the Honeywell Notifier Life Safety Systems. Monitors controlled systems for performance and problems on Building Automation System, Life Safety Systems, Computerized Maintenance Management System.

FAC Communications Technician I

Responsible for planning, layout and complete installation of new commercial and retrofit commercial communications equipment and systems in accordance with all applicable plans, specifications, codes and industry standards.

FAC Communications Technician II

Responsible for planning, layout and completes installation of new commercial and retrofit commercial communications equipment and systems in accordance with all applicable plans, specifications, codes and industry standards, including taking on crew lead responsibilities, mentoring co-workers and apprentices, and overseeing cost coding and time records for the crew.

FAC Construction Surveillance Technician

The Construction Surveillance Technician is responsible for controlling access to construction sites, including: screening and escorting personnel within or to a construction site as appropriate, maintaining control of construction materials, controlling the Secure Storage Area, and reporting incidents and anomalies to the Site Security Manager (SSM).

FAC Control Technician I

Responsible for a variety of duties related to assembling, piecing together, fitting, fastening and installing different parts of manufactured products, performing minor repairs as necessary and other manual labor required in assembling a product. The Control Technician 1 has basic blueprint reading skills.

FAC Control Technician II

Responsible for a variety of duties related to assembling, piecing together, fitting, fastening and installing different parts of manufactured products, performing minor repairs as necessary and other manual labor required in assembling a product. The Control Technician 2 has intermediate blueprint reading skills.

FAC Control Technician III

Responsible for a variety of duties related to assembling, piecing together, fitting, fastening and installing different parts of manufactured products, performing minor repairs as necessary and other manual labor required in assembling a product. The Control Technician 3 has intermediate blueprint reading skills.

FAC Control Technician IV

Responsible for a variety of duties related to assembling, piecing together, fitting, fastening and installing different parts of manufactured products, performing minor repairs as necessary and other manual labor required in assembling a product. The Control Technician IV has advanced blueprint reading skills.

FAC Electrician I

Installs basic electrical equipment and systems in accordance with all applicable plans, specifications, codes, and industry standards while being supervised by an Electrician II. This position does not require an electrician's license.

FAC Electrician II

Installs basic electrical equipment and systems in accordance with all applicable plans, specifications, codes, and industry standards, while working on large, high profile commercial, industrial and government electrical projects.

FAC Electronics Technician

The Electronics Technician is responsible for basic installation and troubleshooting of electronic security, life safety, and telecommunication systems with a heavy emphasis on terminating cables and field devices and installing said devices.

FAC Equipment Manager

The Equipment Manager manages the resources associated with the operation of machines or vehicles equipped with blades/buckets to remove, distribute, level or grade earth, such as a backhoe or excavator.

FAC Fire Alarm Technician I

The Fire Alarm Technician I is responsible for testing and repairing circuits and sensors, following wiring and system specifications; examining systems to locate problems such as loose connections or broken insulation; troubleshooting all aspects of specialty electronic systems located in tenant suites, single story flex space systems, and large retail and commercial space; identifying major system issues that require programming or proprietary assistance for closure; interpreting 1-line diagrams, multiplex schematics, and points list mapping documents; inspecting installation sites and studying work orders, building plans, and installation manuals in order to determine material requirements and installation procedures; mounting and fastening control panels, door and window contacts, and sensors, and attaching electrical and telephone wiring in order to connect components; and drilling holes for wiring in wall studs, joists, ceilings, and floors.

FAC Fire Alarm Technician II

The Fire Alarm Technician II is responsible for testing and repairing circuits and sensors, following wiring and system specifications; examining systems to locate problems such as loose connections or broken insulation; troubleshooting all aspects of specialty electronic systems located in tenant suites, single story flex space systems, and large retail and commercial space; identifying major system issues that require programming or proprietary assistance for closure; interpreting 1-line diagrams, multiplex schematics, and points list mapping documents; inspecting installation sites and studying work orders, building plans, and installation manuals in order to determine material requirements and installation procedures; mounting and fastening control panels, door and window contacts, and sensors, and attaching electrical and telephone wiring in order to connect components; and drilling holes for wiring in wall studs, joists, ceilings, and floors.

FAC Foreman

The Foreman is responsible for supervising and coordinating the work of a crew of electricians, apprentices and laborers on a job site, as well as ensuring that all work installed is completed on time, on budget and according to all applicable plans, specifications, codes and industry standards.

FAC General Maintenance Technician I

The General Maintenance Technician I performs routine operator rounds of facility equipment monitoring the operation and recording operating parameters on reading sheets. He records and reports all faults, deficiencies, and other unusual occurrences while responding to emergency situations and performs any and all task necessary for the protection of occupants and the facility.

FAC General Maintenance Technician II

The General Maintenance Technician II performs routine operator rounds of facility equipment monitoring the operation and recording operating parameters on reading sheets. He records and reports all faults, deficiencies, and other unusual occurrences while responding to emergency situations and performs any and all task necessary for the protection of occupants and the facility.

FAC Generator Technician I

The General Maintenance Technician I performs routine operator rounds of facility equipment monitoring the operation and recording operating parameters on reading sheets. He records and reports all faults, deficiencies, and other unusual occurrences while responding to emergency situations and performs any and all task necessary for the protection of occupants and the facility.

FAC Generator Technician II

The General Maintenance Technician II performs routine operator rounds of facility equipment monitoring the operation and recording operating parameters on reading sheets. He records and reports all faults, deficiencies, and other unusual occurrences while responding to emergency situations and performs any and all task necessary for the protection of occupants and the facility.

FAC HVAC Technician I

The HVAC Technician I is responsible for the troubleshooting, maintenance and performance of the HVAC equipment. He makes periodic inspections of all Engineering systems and equipment and monitoring equipment operations and maintain equipment operating log. He performs maintenance on Engineering systems and equipment to include such items as, but not limited to, Chiller, IFU, VAV, HVAC Controls, and fire and life safety system sprinkler systems.

FAC HVAC Technician II

The HVAC Technician II is responsible for the troubleshooting, maintenance and performance of the HVAC equipment. He makes periodic inspections of all Engineering systems and equipment and monitoring equipment operations and maintain equipment operating log. He performs maintenance on Engineering systems and equipment to include such items as, but not limited to, Chiller, IFU, VAV, HVAC Controls, and fire and life safety system sprinkler systems.

FAC HVAC Technician III

The HVAC Technician III is responsible for the troubleshooting, maintenance and performance of the HVAC equipment. He makes periodic inspections of all Engineering systems and equipment and monitoring equipment operations and maintain equipment operating log. He performs

maintenance on Engineering systems and equipment to include such items as, but not limited to, Chiller, IFU, VAV, HVAC Controls, and fire and life safety system sprinkler systems.

FAC Laborer

The laborer assists the electricians with manual labor tasks. The job duties and responsibilities include erecting and disassembling scaffolding, shoring, braces, and other temporary structures; loading and unloading trucks and distributing electrical materials, machinery, and tools to the appropriate job site locations; hauling and hoisting materials; digging ditches, moving materials, and cleaning job site as the project progresses in order to assist electricians; site clean-up

FAC Mechanical Systems Operator I

The Mechanical Systems Operator I operates machines or vehicles equipped with blades/buckets to remove, distribute, level or grade earth, such as a backhoe or excavator.

FAC Mechanical Systems Operator II

The Mechanical Systems Operator II is responsible for operating machines or vehicles equipped with blades/buckets to remove, distribute, level or grade earth, such as a backhoe or excavator.

FAC Pipe Fitter

The Pipe Fitter maintains, installs, and dismantles all types of pipelines, fittings and hydraulics as required for new construction or maintenance. He receives instructions, blueprints, and work orders for the job, and develops working procedure for the job, material requirements, scaffolding and other equipment required.

FAC Plumber

Responsible for maintaining and upgrading plumbing equipment, piping, etc. Performs corrective and preventative maintenance on all plumbing related equipment. Other responsibilities include, but are not limited to, installing and/or repairing various plumbing equipment (water heaters, drinking fountains, toilets, sinks, etc.) throughout the facility. Also, a Plumber I must be certified/licensed in pipefitting, steam fitting or sprinkler systems.

FAC Power Systems Field Service Technician I

Responsible for designing, testing, constructing, and operating power systems, to include:

- Conceive, direct, implement, and evaluate efficiency of power systems.
- Work with manufacturing engineering on release and documentation of new hardware, test equipment, and assembly fixtures.
- Develop methods of integrating renewable power technology.

FAC Power Systems Field Service Technician II

Responsible for maintaining protective relays for utility and industrial/commercial clients. Systems to be analyzed will include conventional and renewable generation facilities, substations, and transmission and distribution systems.

FAC Service Technician I

Assemble, install, test, and maintain electrical or electronic wiring, conduit, cable, equipment, components and devices associated with electrical equipment, following blueprints of electrical layouts and building plans. Test and inspect electrical systems and components to ensure continuity of circuits in electrical wiring, equipment, and fixtures. Provide troubleshooting services for malfunctioning systems as needed.

FAC Service Technician II

Assemble, install, test, and maintain electrical or electronic wiring, conduit, cable, equipment, components and devices associated with electrical equipment, following blueprints of electrical layouts and building plans. Test and inspect electrical systems and components to ensure continuity of circuits in electrical wiring, equipment, and fixtures. Provide troubleshooting services for malfunctioning systems as needed.

FAC Service Technician III

Assemble, install, test, and maintain electrical or electronic wiring, conduit, cable, equipment, components and devices associated with electrical equipment, following blueprints of electrical layouts and building plans. Test and inspect electrical systems and components to ensure continuity of circuits in electrical wiring, equipment, and fixtures. Provide troubleshooting services for malfunctioning systems as needed.

FAC Service Superintendent

Plan, direct, coordinate, and budget for projects involving the construction and maintenance of structures, facilities and systems. Manage mid-sized to large projects including the oversight of 15-45 field personnel. Inspect and review projects to monitor compliance with building and safety codes, and other regulations.

FAC Warehouse Manager

Maintains ordering, tracking, receiving, warehousing, and distribution operations by coordinating, enforcing, or initiating logistics program policies and procedures. Establishes and maintains stock levels for supplies, materials, tools, and equipment required for operations and maintenance activities. Performs periodic physical counts and audits to manage and control inventory levels.

FAC Warehouse Worker I

Receives and counts stock items and records data, examines and inspects stock and delivered items for damage, verifies inventory levels and reports discrepancies. Determines proper storage methods for items and stores items in an orderly and accessible manner. Performs manual tasks including packing/unpacking items, marking items, and cleaning and maintaining supplies, tools, equipment, etc. to maintain compliance with safety regulations.

FAC CAD Operator II

The CAD Operator II is responsible for modifying drawings based on engineer markups and specification of existing drawings, create new AutoCAD drawings from hand drawings, and

printing copies of drawings. In this position, the CAD Operator II must become familiar with the company specific and national drawing standards and symbols.

FAC CAD Operator III

Responsible for modifying drawings based on engineer markups and specification of existing drawings, create new AutoCAD drawings from hand drawings, and printing copies of drawings. In this position, the CAD Operator III must become familiar with the company specific and national drawing standards and symbols. Supervises and mentors less-experience CAD operators.

FAC Office Engineer I

Provides technical & administrative information to others working on a project to ensure that the work complies with all basic engineering standards, codes, specifications, and design instruction; trouble-shoots engineering related installation problems. Works closely supervised and solves problems of limited scope and complexity.

FAC Office Engineer III

Provides technical & administrative information to others working on a project to ensure that the work complies with all engineering standards, codes, specifications, and design instruction; trouble-shoots engineering related installation problems. Provides solutions to a wide range of difficult problems. Solutions are imaginative, thorough and practical.

FAC Project Administrator I

Processes and tracks documentation, keeping all logs and report organized and maintained. Distributes all correspondence as directed by the Project Manager and coordinates meetings.

FAC Project Administrator II

Processes and tracks documentation, keeping all logs and report organized and maintained. Distributes all correspondence as directed by the Project Manager and coordinates meetings. Assists the project manager in preparation of reports.

FAC Project Manager I

Assists the project Superintendent in the preparation of project documentation requirements, project layout, and field office support. Provides overall financial management for projects and monitors project progress. Reviews contracts and customer negotiations.

FAC Project Manager II

Assists the project Superintendent in the preparation of project documentation requirements, project layout, and field office support. Provides overall financial management for projects and monitors project progress. Reviews contracts and customer negotiations. Mentors subordinates and assists with career development.

FAC Project Manager III

Assists the project Superintendent in the preparation of project documentation requirements, project layout, and field office support. Provides overall financial management for projects and monitors project progress. Reviews contracts and customer negotiations. Mentors subordinates and assists with career development.

FAC Quality Engineer I

Assist project quality control team in quality system documentation management. Plan, schedule, coordinate and conduct QAQC audits to ensure quality control procedural requirements are being adhered to.

FAC Quality Engineer II

Ensure compliance and maintenance of project work with all applicable internal, contractual, and industry standards. Create quality checklists to comply with contractual and industry specific requirements. Evaluate effectiveness of corrective action responses.

FAC Quality Engineer III

Ensure compliance and maintenance of project work with all applicable internal, contractual, and industry standards. Create and review quality checklists to comply with contractual and industry specific requirements. Evaluate effectiveness of corrective action responses.

FAC Quality Engineer IV

Ensure compliance and maintenance of project work with all applicable internal, contractual, and industry standards. Review quality checklists to comply with contractual and industry specific requirements. Evaluate effectiveness of corrective action responses.

FAC Quality Manager

Manage team of Quality Auditors. Review quality checklists to comply with contractual and industry specific requirements. Ensure compliance and maintenance of project work with all applicable internal, contractual, and industry standards. Evaluate effectiveness of corrective action responses.

FAC Safety Manager I

The safety manager is responsible for ensuring implementation of the Electrical Safety and Health (S&H) Program, effectively managing multiple safety programs, developing and implementing M.C. Dean site-specific project safety plans, and leading and implementing the Operational Risk Management (ORM) process. Provides solutions to a wide range of difficult problems. Solutions are imaginative, thorough and practical.

FAC Safety Manager II

The safety manager is responsible for ensuring implementation of the Electrical Safety and Health (S&H) Program, effectively managing multiple safety programs, developing and implementing M.C. Dean site-specific project safety plans, and leading and implementing the Operational Risk

Management (ORM) process. Responsible for Creating, developing and implementing electrical safety training plans. Provides solutions to a wide range of difficult problems. Solutions are imaginative, thorough and practical.

FAC Safety Division Manager

The Safety Division Manager is responsible for the development and oversight of the Electrical Safety and Health (S&H) Program. Manages multiple safety programs, developing and implementing M.C. Dean site-specific project safety plans, and leading and implementing the Operational Risk Management (ORM) process. Mentoring subordinate electrical safety professionals and cross training with other safety professionals and communicating multiple code interpretation to field level personnel. Applying knowledge of industrial or commercial grade electrical applications, and existing electrical Operations and Maintenance (O&M) and construction activities. Understanding and interpreting the National Electric Code (NEC) and the National Fire Protection Association (NFPA) 70E and overseeing and managing the NFPA 70E program (V-Advanced Level Test).

FAC Safety Manager

The safety manager is responsible for ensuring implementation of the Electrical Safety and Health (S&H) Program, effectively managing multiple safety programs, developing and implementing M.C. Dean site-specific project safety plans, and leading and implementing the Operational Risk Management (ORM) process. Responsible for Creating, developing and implementing electrical safety training plans. Provides solutions to a wide range of difficult problems. Solutions are imaginative, thorough and practical.

FAC Scheduler

The Scheduler designates work to be done and specifies deadlines for completing tasks and deliverables. Complete understanding & application of principles, concepts and practices. Responsible for aiding, tracking, monitoring status, controlling and performing issue resolution throughout the project's life cycle. Provides project planning and scheduling documentation to support project and customer requirements. Assists Team Leads, Superintendents and the Project and Program Managers in tracking the projects against baseline schedules and budgets, and assists Project Managers in maintaining Master schedule for each project, identifying and recording the impact of work performed and not performed as scheduled.

FAC Carpenter

Is responsible for performing a variety of carpentry duties as assigned. Carpentry services include, but are not limited to, the design, construction, installation and repair of wooden fixtures and structures such as cabinets, furniture, shelving, doors, plaques, and other custom wood products. Other duties include, but are not limited to, framing and finish work, painting, staining, etc. Monitors subcontractor performance as assigned, conducts jobsite troubleshooting and performs primary project layout and carpentry production

FAC Painter

Paints and redecorates walls, woodwork and fixtures, as well as desks, tables, cabinets (metal and wood), machinery and curbs. Work involves the following: knowledge of surface peculiarities and types of paint required for different applications; preparing surface for painting by removing Old finish or by placing putty or Miller in nail holes and interstices; and applying paint with spray gun or brush. May mix colors, oils, white lead and other paint ingredients to obtain proper color or consistency. In addition to painting, responsible for taping and texturing of drywall as required. May be required to assist Maintenance Mechanic in duties that parallel a painter's primary tasks

FAC Locksmith

Installs, repairs, replace and maintain locks; open locks without keys by picking, drilling, and duplicating keys. Install door locks, replace and install all finished buildings hardware such as door closures, panic bars, repair locks on file cabinets, desks, and other pieces of furniture. Establish/maintain accurate records of key assignments. record changes in key and lock assignments. work from preventive maintenance schedules, use and operate tools of the trade and respond to emergency calls. Perform other job-related work as assigned.

Data Center Engineer

Responsible for ensuring that all electrical, mechanical, and fire/life safety equipment within the data center is operating at peak efficiency. This involves both planned preventative maintenance of equipment, daily corrective work, and emergency response to emergent issues. The Engineer serves as an expert technical resource reporting to client engineers, interacting with Onsite Engineering Operations (OEO) and any third-party vendors. They are expected to be a singular focal point for all facility operations within a given data center and to support operated data centers.

Data Center Facility Manager

Front line when it comes to hands-on electrical and mechanical equipment troubleshooting. They maintain, operate, and troubleshoot mission-critical data center facility equipment including electrical support equipment such as stand-by diesel generators and related fuel systems, 3 phase electrical systems that include but not limited to switchgear, UPS units, PDUs, batteries and associated systems. Mechanical equipment includes CRAH units, centrifugal chillers, cooling towers/water chemical system, air handlers and associated systems, pumps, and motors. Additional support equipment is included in the scope of the role which includes fire suppression systems, building automation systems, and general facilities equipment.

Data Center Operations - Manager

As a leader in the Operations team, the Manager of Data Center Operations is responsible for all operational aspects and uptime of the data center. The manager is responsible for providing field level technical expertise and program management for the maintenance and operation of the electrical, mechanical, fire life safety, security, and communications infrastructure as well as any applicable base building support systems. All Data Center Operations staff reports through the Manager of Data Center Operations.

REM I

Have a general understanding of load profile data presentation and manipulation; energy audits, and energy project development; have experience in providing technical resources and management of energy related services; have working knowledge in various energy estimating software packages such as, but not limited to, Trane Trace, Department of Energy analysis tools, and other simulation software; have a working knowledge in documenting and monitoring maintenance procedures utilizing software such as IBM Maximo Asset Management software; have a working knowledge in the use of bin, heating degree days, and other simplified methods of energy calculations; have familiarity with all Executive Orders, ESPC, DSM, utility privatization, and other legislations and regulations related to energy programs; have a general understanding of the ESPC program including Measurement and Verification protocols; and be proficient in the use of the Microsoft Offices suite for the analysis of energy usage data and the development of presentations of findings and proposals for cost-effective solutions. Also, have a thorough understanding of the Army Energy and Water Reporting System (AEWRS) system for energy reporting as well as a thorough understanding of potential utility rates that may be encountered at each site, ESPC guidance, DOE's measurement and verification protocols, the International Measurement and Verification Protocols, American Society of Heating, Refrigerating and Air-Conditioning Engineers' (ASHRAE's) measurement and verification procedures, CEHNC's area-wide ESPC contracts, GSA ESPC contracts, DOE's Super ESPC contracts, and other alternative financing vehicles.

REM II

Have an expertise in the following areas: specific experience in an Energy Management Program; thorough understanding of load profile data presentation and manipulation; energy audits, and energy project development. Have experience in providing technical resources and management of energy related services; a working knowledge in various energy estimating software packages such as but not limited to Trane Trace, DOE II, and other simulation software; a working knowledge in documenting and monitoring maintenance procedures utilizing software such as MAXIMO; shall have a working knowledge in the use of bin, heating degree-days, and other simplified methods of energy calculations; familiarity with all Executive Orders, ESPC, DSM, utility privatization, and other legislations and regulations related to energy programs; an understanding of the ESPC program including Measurement and Verification protocols; and proficient in the use of the Microsoft Offices suite for the analysis of energy usage data and the development of presentations of findings and proposals for cost-effective solutions. Have an understanding of the AEWRS system for energy reporting, a thorough understanding of potential utility rates that may be encountered at each site, ESPC guidance, DOE's measurement and verification protocols, the International Measurement and Verification Protocols, ASHRAE's measurement and verification procedures, CEHNC's area- wide ESPC contracts, GSA ESPC contracts, DOE's Super ESPC contracts, and other alternative financing vehicles, ESPC contracts, and other alternative financing vehicles.

REM III

Have expertise in the following areas: specific experience in an Energy Management Program; thorough understanding of load profile data presentation and manipulation; energy audits, and energy project development; experience in providing technical resources and management of energy related services; a working knowledge in various energy estimating software packages

such as but not limited to Trane Trace, DOE II, and other simulation software; a working knowledge in documenting and monitoring maintenance procedures utilizing software such as MAXIMO; shall have a working knowledge in the use of bin, heating degree-days, and other simplified methods of energy calculations; familiarity with all Executive Orders, ESPC, DSM, utility privatization, and other legislations and regulations related to energy programs; an understanding of the ESPC program including Measurement and Verification protocols; and proficient in the use of the Microsoft Offices suite for the analysis of energy usage data and the development of presentations of findings and proposals for cost-effective solutions. Have experience in providing subject matter expertise on all aspects of an energy project total life cycle management and provide in-depth technical engineering support. Have an understanding of the AEWRS system for energy reporting, a thorough understanding of potential utility rates that may be encountered at each site, ESPC guidance, DOE's measurement and verification protocols, the International Measurement and Verification Protocols, ASHRAE's measurement and verification procedures, CEHNC's area- wide ESPC contracts, GSA ESPC contracts, DOE's Super ESPC contracts, and other alternative financing vehicles.

Planning and Programming Facilitator

Assist energy programs with planning and programming of various projects to include maintain documentation and/or databases via a draft or approved configuration management plan for various energy programs. Assist worldwide energy program with updating policies and procedures for each program and make recommendations for enhancements based upon knowledge, skills and lessons learned.

IT Program/Project Manager

Responsible for large projects or a significant segment of a large complex program. Translates customer requirements into formal agreements and plans that culminate in customer acceptance of results while meeting business objectives. Works with customer to identify business requirements and develops the proposed solution. Subsequently leads a team in initiating, planning, controlling, executing, and closing tasks of a project or segment of a project to produce the delivered solution. Executes a wide range of process activities beginning with the initial technical response to an order through development, test and final delivery. Formulates partnerships between customer, suppliers, and staff. Anticipates potential project related problems. Uses refined techniques for identifying, eliminating, or mitigating solution, project, and business risks. Understands customer, industry, and business trends. Applies this understanding to meet project objectives. As appropriate, challenges the validity of given procedures and processes to enhance or improve them. Analyzes information and situations and implements actions, independently or through the management team, to ensure project objectives are met. Analyzes new and complex project related problems and creates innovative solutions involving finance, scheduling, technology, methodology, tools, and solution components.

IT Subject Matter Expert

Provides technical knowledge and skill in using specialized applications in the areas specified in the order. Experienced in the operational environment and using high-level functional systems analysis, design, integration, documentation, and implementation methodologies on complex

problems that require in-depth knowledge of the subject matter for effective implementation. Participates as needed in all phases of engineering design and software development with emphasis on the planning, analysis, testing, integration, documentation and presentation phases. Applies principles, methods and knowledge of the functional area of expertise to specific order requirements and in the process uses advanced mathematical principles and methods to arrive at practical, innovative solutions. Designs and prepares technical reports, data bases, studies, and related documentation, makes charts and graphs to record results. Prepares and delivers presentations and briefings as required by the order.

IT Systems Architect

Provides executive level support to customers in identifying, compiling, and analyzing information transfer requirements and determining how these requirements can best be met. Architects, designs, develops and executes proven approaches to requirements analysis following I.E.E.E. and other applicable specifications, to provide customers with: confluence of understanding between User and Technical communities; bi-directional feedback mechanism for User and Technical personnel discussions and consensus; a framework for early identification and resolution of system design problems; a foundation for qualifying and quantifying system characteristics that meet customer needs; a baseline for comprehensive system capabilities and a basis for determining system completion parameters; a road map for system planning, design and development; and a mechanism for capturing, documenting and auditing requirements changes. Provides top-level briefings, analyses and recommendations to executive decision makers on the structure, format, approach and anticipated results and performance metrics associated with requirements determination processes.

IT Systems Engineer

Designs, develops, and implements systems engineering solutions that meet the customer's connectivity, throughput, and security requirements. Evaluates existing systems to identify deficiencies and performance issues. Experienced with the systems engineering architectures and planning that must be undertaken to adequately define requirements, acquire, and implement systems, equipment and software. Consults with users, managers, and staff to ensure that deficiencies and alternatives have been fully identified and that the solution meets requirements.

IT Design Engineer

Provides expert support, analysis, and assistance in the design, development, deployment and integration of Enterprise Applications and technology solutions. Has broad expertise in hardware, software, and support systems for general and specialized applications, to ensure seamless communication and use of data across legacy systems and different vendor applications. Provides technical analysis and implementation support for products and solutions designs in multi-vendor, heterogeneous environments.

IT Jr. Design Engineer

Provides support, analysis, and assistance in the design, development, deployment and integration of Enterprise Applications and technology solutions. Has broad expertise in

hardware, software, and support systems for general and specialized applications, to ensure seamless communication and use of data across legacy systems and different vendor applications. Provides technical analysis and implementation support for products and solutions designs in multi-vendor, heterogeneous environments.

IT Network Architect

Conceptualizes, designs, plans, and oversees implementation of local, national and global network architectures, including: Notional topologies and physical infrastructures and architectures; Definition of network service layers and protocol and service support elements; definition of network protection layers and strategies; design, evaluation and selection of Transmission, IP, ATM, SONET, and other equipment components; design of evolutionary network growth paths, including reduced latency by merging network transmission layers, new network services, and new transmission technologies; development of strategies for scalable, manageable network configurations allowing exponential growth over time; and strategic inputs to network cost and return on investment calculations. The network architect shall be the senior network design authority on the project and shall have sufficient education, certifications such as C.C.I.E or other industry credentials.

IT Senior Network Engineer

Must have proven technical ability in LAN/WAN design and implementation. Excellent understanding of TCP/IP and routing protocols is needed. Attention to detail is required in managing complex changes to customer networks. Act as the technology lead for designing the network and security platforms and technical lead supporting the network. Other responsibilities include security audits, assessments, design, implementation and configuration. Provides leadership, direction and vision in the support and deployment of network and security technologies. Works with project managers, business analysts and contractors on security solutions to address customer's security requirements. Researches and provides information on security related solutions. Performs software evaluations and testing of new and existing security solutions.

IT Network Engineer

Must have proven technical ability in LAN/WAN design and implementation. Excellent understanding of TCP/IP and routing protocols is needed. Attention to detail is required in managing complex changes to customer networks. Responsibilities include security audits, assessments, design, implementation and configuration. Provides support and deployment of network and security technologies. Works with project managers, business analysts and contractors on security solutions to address customer's security requirements. Researches and provides information on security related solutions. Performs software evaluations and testing of new and existing security solutions.

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Must have proven technical ability in LAN/WAN design and implementation. Excellent understanding of TCP/IP and routing protocols is needed. Attention to detail is required in managing complex changes to customer networks. Responsibilities include security audits,

assessments, design, implementation and configuration. Provides support and deployment of network and security technologies.

IT Senior Security Engineer

Executes enterprise security policies and ensures all aspects of security architectures, strategies, processes, programs and methodologies are implemented at the physical, technical and logical levels. Implements security mechanisms and measures for: Network Servers, Workstations and PCs, Laptops, Local area network devices, Wide area network devices, Routers, Firewall, Encryption devices, and security elements of network management systems. Audits level of security (Logs, exploits, attacks), evaluates new solutions and capabilities, validates changes to the environment, performs penetration tests, corrects problems identified, and tracks, records and maintains audit logs. Provides user, management and executive level support for security issues on a daily basis. Maintains necessary industry security accreditations and certifications, and keeps abreast of emerging security issues, standards and implementation techniques.

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IT Software Architect

Formulates and defines system scope and objectives for complex information systems. Prepares detailed specifications for programs. Designs, codes, tests, debugs and documents programs. Works in all phases of applications, systems analysis, and programming activities. Provides guidance and training to less experienced analysts/programmers.

IT Senior Software Engineer

Formulates and defines system scope and objectives for complex information systems. Prepares detailed specifications for programs. Designs, codes, tests, debugs and documents programs. Works in all phases of applications, systems analysis, and programming activities. Provides guidance and training to less experienced analysts/programmers.

IT Software Engineer

Formulates and defines system scope and objectives for complex information systems. Prepares detailed specifications for programs. Designs, codes, tests, debugs and documents programs. Works in all phases of applications, systems analysis, and programming activities.

IT Jr. Software Engineer

Formulates and defines system scope and objectives for complex information systems. Prepares detailed specifications for programs. Designs, codes, tests, debugs and documents programs. Works in all phases of applications, systems analysis, and programming activities.

IT Sr. Enterprise Engineer

Applies enterprise architecture, process improvement and reengineering methodologies and principles with Internet-related methodologies to conduct process modernization projects. Responsible for the effective transitioning of existing organizations or project teams and the facilitation of project teams in the accomplishment of the organization's goals or project activities and objectives through the improved use of the Internet and intranets. Provides group facilitation, interviewing, training, and provides additional forms of knowledge transfer. Key coordinator between customers and multiple project teams to ensure enterprise-wide integration of reengineering efforts and application of best business practices.

IT Enterprise Engineer

Applies enterprise architecture, process improvement and reengineering methodologies and principles with Internet-related methodologies to conduct process modernization projects. Responsible for the effective transitioning of existing organizations or project teams and the facilitation of project teams in the accomplishment of the organization's goals or project activities and objectives through the improved use of the Internet and intranets. Provides group facilitation, interviewing, training, and provides additional forms of knowledge transfer.

IT Senior Requirements Analyst

Serves as primary customer interface during requirements collection process, and develops and executes information extraction and analysis processes to ensure comprehensive requirements determination. Collects and validates system requirements in accordance with accepted definitions. Organizes and communicates requirements a structured manner to allow customers and technical communities to agree on the total set. During the design phase, evaluates requirements to drive key design objectives and constraints for hardware, software, subsystems and operations components. During the development phase, uses requirements to create measurable performance objectives and parameters for the system being developed. Facilitates customer meetings and requirements identification sessions, and has ability to

function independently with multiple customer divisions, units, resources, or sources of information to ensure comprehensive requirements determination

IT System Requirements Analyst

Serves as customer interface during requirements collection process, and develops and executes information extraction and analysis processes to ensure comprehensive requirements determination. Collects and validates system requirements in accordance with accepted definitions. Organizes and communicates requirements a structured manner to allow customers and technical communities to agree on the total set. During the design phase, evaluates requirements to drive key design objectives and constraints for hardware, software, subsystems and operations components. During the development phase, uses requirements to create measurable performance objectives and parameters for the system being developed. Facilitates customer meetings and requirements identification sessions, and has ability to function independently with multiple customer divisions, units, resources, or sources of information to ensure comprehensive requirements determination

IT Jr. Requirements Analyst

Supports customer interface during requirements collection process and develops and executes information extraction and analysis processes to ensure comprehensive requirements determination. Collects and validates system requirements in accordance with accepted definitions. Organizes and communicates requirements a structured manner to allow customers and technical communities to agree on the total set. During the design phase, evaluates requirements to drive key design objectives and constraints for hardware, software, subsystems and operations components. During the development phase, uses requirements to create measurable performance objectives and parameters for the system being developed.

IT Senior Technician

Monitors and responds to complex hardware, software, and network problems using a variety of hardware and software testing tools and techniques. Provides primary interface with contractor's technical support groups or provides internal analysis and support to ensure appropriate notification during outages or periods of degraded system performance. Requires extensive knowledge of communications hardware and software in multi-vendor environment. May function as task lead providing guidance and training for less experienced technicians.

IT Technician

Monitors and responds to complex hardware, software, and network problems using a variety of hardware and software testing tools and techniques. Provides primary interface with contractor's technical support groups or provides internal analysis and support to ensure appropriate notification during outages or periods of degraded system performance. Requires extensive knowledge of communications hardware and software in multi-vendor environment. May function as task lead providing guidance and training for less experienced technicians.

IT Jr. Technician

Monitors and responds to complex hardware, software, and network problems using a variety of hardware and software testing tools and techniques. Provides interface with contractor's technical support groups or provides internal analysis and support to ensure appropriate notification during outages or periods of degraded system performance. Requires knowledge of communications hardware and software in multi-vendor environment.

Senior Program Manager

Senior Program Manager is responsible for the performance of the work. Be able to correctly identify required maintenance, define project requirements, and relay any findings in writing (preferably) and/or orally in a way that employee understands requirements. The PMG shall have full authority to act for the Contractor on all contract matters relating to the daily operations of this contract. The PMG shall be permanently on site during normal operation hours to instruct and supervise their personnel. Provides broad program oversight over a large, multifunctional service contract. Exercises independent judgment as well as high level and analytical skills in solving complex and unusual managerial, technical and administrative problems. Ultimately responsible for staffing, program planning, execution, performance, quality control and deliverables. Serves as the contractor's single contract manager and shall be the contractor's authorized interface with the Government Contracting Officer (CO), the contract level Contracting Officer's Representative (COR), government management personnel and customer agency representatives. Responsible for formulating and enforcing work standards, assigning contractor schedules, reviewing work discrepancies, supervising contractor personnel and communicating policies, purposes, and goals of the organization to subordinates. Shall be responsible for the overall contract performance and shall not serve in any other capacity under this contract. Responsible for the financial, applicable technology, and schedule performance of assigned programs within cost limitations and established standards. Position may coordinate proposal preparation, statements of work and specifications, estimation of product/service costs, negotiation and administration of contracts. Establishes milestones and monitors adherence to program master plans and schedules. Develops control systems and reports that accurately measure progress, identify potential problems in sufficient time for corrective action to be taken, and ensures the meeting of company's contract commitments. Position directs the performance of program functional task elements such as procurement, quality control, logistics, and administrative functions. Acts as primary customer contact on status and performance and anticipates and fulfills customer needs to ensure their satisfaction and continued business. Determines and establishes organizational structures and supervisory relationships, subject to top management approval. Responsible for the successful operation of activities of major significance to the organization.

Senior O&M Manager

Senior Operations and Maintenance Manager assists Program Manager in planning, management, control and execution of events under the project's life cycle in support of the Business Unit upper management. Typical duties include:

Supports the management of a project or series of smaller projects or a definable piece of a larger program for successful completion and performance consistent with contractual requirements

- Supports Program Manager to ensure satisfactory completion of project objectives
- Assists the program manager with planning, management, control and supervising activities to support the full life cycle of assigned project
- Assists in the development of comprehensive project plans to include both long and short-range goals and milestones
- Ability to stand in for Program Manager as needed.

Senior Quality Control Manager

Senior QCM shall perform quality assurance on one or multiple projects to ensure work and data entry is performed as specified in this PWS. The Senior QCM shall oversee data entry of maintenance orders to analyze Contractor's performance of quality control efforts. The Senior QCM shall ensure all supporting documentation is reported and uploaded to Government accordingly.

Senior Health, Safety & Environmental Inspector

Senior HS&E Inspector oversees that all work under one or multiple projects is performed IAW with safety standards as prescribed by the U.S. Government and host nation safety laws and regulations. Is responsible for ensuring implementation of the Safety and Health (S&H) Program, effectively managing multiple safety programs, developing and implementing site-specific project safety plans, and leading and implementing the Operational Risk Management (ORM) process. Responsible for Creating, developing and implementing electrical safety training plans. Provides solutions to a wide range of difficult problems. Solutions are imaginative, thorough and practical."

Senior Contract Administrator

Senior Contract Administrator handles all contract agreements and related documentation in accordance with established contract policies and procedures on a single or multiple project. Reviews modifications, extensions, and contract closeout documents. Prepares and distributes reports and statistical data to facilitate planning and maintenance of accurate contract records and files. Performs preparation of contractual provisions and the administration of contract proposals. Responsible for preparing bids and negotiating specifications and contractual provisions. Is familiar with standard concepts, practices, and procedures within a particular field, and relies on experience and judgment to plan and accomplish goals.

Supervisory Work Control Manager

Supervisory Work Control Manager oversees day to day operation relating to scheduling, performance and fulfillment of routine and unscheduled work performed on single or multiple projects. Assures timelines are met and assets are allocated effectively. Reviews data, time allocation, resources allocation and completion efficiency for staff and duties performed.

Senior Work Control Manager

Senior Work Control Manager oversees day to day operation relating to scheduling, performance and fulfillment of routine and unscheduled work performed on single or multiple projects. Assures timelines are met and assets are allocated effectively. Reviews data, time allocation, resources allocation and completion efficiency for staff and duties performed. May perform as Supervisory Work Control Manager as necessary.

Senior Finance Manager

The Senior Finance Manager manages all general accounting functions and financial analysis for budgets and schedules for the company on individual or multiple projects. Typical duties include:

- Manages the activities of general accounting functions.
- Oversees the financial analysis of budgets and schedules for assigned business area.
- Interprets and formulates financial methods and procedures for business area established goals.
- Ensures compliance with company policies, procedures and other practices set forth by upper management directives.
- Develops, implements and administers financial records in accordance with generally accepted accounting principles, corporate policies and government regulations.

Senior HR Specialist

The Senior HR Specialist works with all human resource staff members to develop, plan, and administer policies relating to all phases of human resources activity for assigned business area. Typical duties include:

- Oversees HR staff during the planning and administering of all activities.
- Serves as management representative when called upon.
- Develops and administers policies and programs covering several areas of Human Resources such as recruitment, wage and salary administration, training, employee relations, benefits and equal employment opportunity (EEO)/affirmative action programs.
- Prepares recommendations to upper management concerning human resources issues and concerns.
- Ensures assigned group programs, practices and policies comply with applicable laws, regulations and company policies.
- Compile and keep personnel records.
- Record data for each employee, such as address, weekly earnings, absences, amount of sales or production, supervisory reports, and date of and reason for termination.
- May prepare reports for employment records, file employment records, or search employee files and furnish information to authorized persons.

Cost Estimator

Cost Estimator works directly with program and project staff to plan, estimate, verify and cost both individual task orders and overall project costs. Allocates assets accordingly to assure work performed is accurately priced to reflect all staff, assets and material are accounted for in a pricing model.

Senior Production Control Clerk

Supports the operations of individual or multiple contracts with oversight relating to the daily operation of the production control department, maintenance supply function, repair supply function and facilitates the departmental workflow to ensure compliance with contract requirements, including the effective, efficient, and economical operation of all activities.

Production Control Clerk

Responsible for the daily operation of the production control department, maintenance supply function, repair supply function and facilitates the departmental workflow to ensure compliance with contract requirements, including the effective, efficient, and economical operation of all activities.

Scheduler, Maintenance

Maintenance Scheduler works closely with the Work Control staff in regard to day to day operation relating to scheduling, performance and fulfillment of routine and unscheduled work performed on single or multiple projects. Assures timelines are met and assets are allocated effectively. Reports data, time allocation, resources allocation and completion efficiency for staff and duties performed.

Computer Operator I

Sets up and operates computer peripheral devices. Monitors the system for error messages and ensures efficiency. Performs routine preventative maintenance on equipment according to user manuals and installation standards. Submits job requests based on appropriate computer schedule. Observes operation of the computer to detect errors, machine stoppage or faulty output. Performs data entry for all Contractor's labor and equipment used during the work. The processor shall ensure the time is charged correctly to an individual GFEBs maintenance order, work center and task code and that the GFEBs entry counterparts the invoice amount.

Computer Operator II

Sets up, operates, maintains and troubleshoots computer peripheral devices. Performs analytic and preventative maintenance on equipment. Observes operation of the computer to detect errors, machine stoppage or faulty output. Performs data entry for all Contractor's labor and equipment used during the work. The processor shall ensure the time is charged correctly to an individual GFEBs maintenance order, work center and task code and that the GFEBs entry counterparts the invoice amount. Enter and maintain in GFEBs all materials transactions for SHIP store and shall charge all used materials to individual work orders and to ensure the material charges are posted correctly against the work center and task code.

Computer Operator III

Operates, maintains and troubleshoots computer devices and software. Provides programming and analytical assistance as needed. Oversees GFEBs data entry process to ensure time is charged correctly to an individual GFEBs maintenance order, work center and task code and that the GFEBs entry counterparts the invoice amount. Enter and maintain in GFEBs all materials

transactions for SHIP store and shall charge all used materials to individual work orders and to ensure the material charges are posted correctly against the work center and task code.

Computer Operator IV

Manages, maintains, troubleshoots and provides necessary programming and hardware services to company computer systems, operating software and programs such as Computerized Maintenance Management System (CMMS). Oversees analysis of hardware and software updates and patches.

Computer Operator V

Computer Operator V is responsible for the effective performance of all company hardware and software systems. Works with other IT staff to verify data entry is accurate and software such as CMMS is performing accurately and efficiently. Maintains reports and data entry logs. Reviews data entry process of staff members.

Accounting Clerk II

This position uses knowledge of double entry bookkeeping in performing one or more of the following: posting actions to journals, identifying subsidiary accounts affected, making debit and credit entries, and assigning proper codes. The Accounting Clerk II may review computer printouts against manually maintained journals, detect and correct erroneous postings, and prepare documents to adjust accounting classifications and other data, or review lists of transactions rejected by an automated system. In this instance, the Accounting Clerk II will determine reasons for rejections, and prepare necessary correcting material. On routine assignments, an employee will select and apply established procedures and techniques. Detailed instructions are provided for difficult or unusual assignments. Completed work and methods used, are reviewed for technical accuracy.

General Clerk II

General Clerk II follows clearly detailed specific procedures in completing several repetitive clerical steps performed in a prescribed or slightly varied sequence, such as coding and filing documents in an extensive alphabetical file; could involve simple posting to individual accounts, opening mail, calculating and posting charges to departmental accounts, operating basic office equipment, e.g., photocopier, facsimile, multi-line phone/voicemail systems, mailing machines, and minimal computer programs. Little or no subject-matter knowledge is required, but the clerk uses his or her own judgment in choosing the proper procedure for each task.

General Clerk III

General Clerk III maintains technical publications in a complete and current status per regulations. Incumbent requisitions, files, receives, screens, reviews, routes, and distributes all incoming technical manuals. Also monitors dispersed libraries and necessary control functions to distribute data. Incumbent complies with processes established for classified technical media receipt, storage, distribution, inventory, and disposition in accordance with current regulations.

Senior Administrative Assistant

The Senior Administrative Assistant works closely with senior staff to coordinate office services and related activities, including developing and managing programs for the maximum utilization of resources, services and equipment. Manage activities such as mail and courier, facsimile equipment, and telephone services. Manage technical document production, which includes editing, graphics, word processing and reproduction. Serve as group coordinator to establish and implement the Company quality system. Make recommendations for purchase of new equipment and technology and for improvements to current work processes and methods to continually meet employee and customer needs.

Order Clerk I

Receive calls with courtesy and tact. Provide information services. Answer questions regarding facility's organizational elements and current projects. Create new work orders based upon phone calls and emails in the contractor's systems. This position requires familiarity with the terminology of the office unit. The Clerk selects appropriate methods from a wide variety of procedures or makes simple adaptations and interpretations of a limited number of substantive guides and manuals. The clerical steps often vary in type or sequence, depending on the task. Recognized problems are referred to others. This position receives, comprehends, provides, and responds to routine informational inquiries and service requests through the use of various communication technologies including but not limited to telephones, e-mail, facsimile, postal mail, and the Internet.

Order Clerk II

Receive calls with courtesy and tact. Provide information services. Answer questions regarding facility's organizational elements and current projects. Create new work orders based upon phone calls and emails in the contractor's systems. This position requires familiarity with the terminology of the office unit. The Clerk selects appropriate methods from a wide variety of procedures or makes simple adaptations and interpretations of a limited number of substantive guides and manuals. Responsible for performing duties as a Help Desk for basic data entry questions.

Order Clerk III

Receive calls with courtesy and tact. Provide information services. Answer questions regarding facility's organizational elements and current projects. Create new work orders based upon phone calls and emails in the contractor's systems. This position requires familiarity with the terminology of the office unit. The Clerk selects appropriate methods from a wide variety of procedures or makes simple adaptations and interpretations of a limited number of substantive guides and manuals. Responsible for performing duties as a Help Desk for more complex data entry questions and coordination with senior staff as necessary.

Building Inspector

Examines government living quarters for conformity to established quality, health, safety, or other standards, by performing any combination of the following duties: examines items for defects and for conformance to specifications, visually and by personally testing items such as fan switches; verifies that established standards are maintained relative to building and facilities and business

practices, operations and services. Prepares cost estimates for damages observed and delivers to the tenants.

Supply Technician

Procure or oversee the procurement of all services, supplies, hardware, software, and other commodities required for Company facilities and employees to function. Review the procurement process for adherence to Company policies and Government regulations. Advise on the most efficient means of procuring items and applicable procedures.

Procurement Supervisor

Provide an effective subcontract and procurement program, which ensures compliance with prime contract requirements. Negotiate, justify, and issue purchase orders for supplies and services in accordance with Company policies and procedures. Negotiate, document, and establish new subcontracts, including establishing evaluation criteria and plan, evaluating security subcontractors' offers, documenting subcontractors' capabilities, conducting evaluation of all proposals; creating subcontracts; and maintaining official complete subcontract files. Administer all subcontracts and purchase orders, including monitoring performance, prices, and certifications; exercising options, conducting market analysis and negotiating prices; maintaining subcontract and purchase order files; issuing modifications as necessary; assisting management in resolving subcontractor and vendor problems; and resolving invoicing issues with Finance and Accounting. May provide functional direction to other contracts and procurement personnel, including site visits and audits.

Procurement Specialist

Work in conjunction with Procurement Supervisor and Supply Technicians to provide an effective subcontract and procurement program, which ensures compliance with prime contract requirements. Negotiate, justify, and issue purchase orders for supplies and services in accordance with Company policies and procedures. Negotiate, document, and establish new subcontracts, including establishing evaluation criteria and plan, evaluating security subcontractors' offers, documenting subcontractors' capabilities, conducting evaluation of all proposals; creating subcontracts; and maintaining official complete subcontract files.

Material Expediter

Works to coordinate procurement and delivery of time sensitive materials needed to complete work orders, usually Emergency and Urgent Work Orders

Stock Clerk

The Stock Clerk receives, stores, and issues equipment, materials, supplies, merchandise, foodstuffs, or tools, and compiles stock records of items in stockroom, warehouse or storage yard. This worker sorts, or weighs incoming articles to verify receipt of items on requisition or invoice, examines stock to verify conformance to specifications, stores articles in bins, on floor or on shelves, according to identifying information, such as style, size or type of material, fills orders or issues supplies from stock, prepares periodic, special or perpetual inventory of stock, and requisitions articles to fill incoming orders.

Shipping/Receiving Clerk

The Shipping/Receiving Clerk performs clerical and physical tasks in connection with shipping goods of the establishment in which employed and receiving incoming shipments. In performing day-to-day, routine tasks, this worker follows established guidelines. In handling unusual non-routine problems, this worker receives specific guidance from supervisor or other officials. Shipping duties typically involve the following: verifying that orders are accurately filled by comparing items and quantities of goods gathered for shipment against documents; insuring that shipments are properly packaged, identified with shipping information, and loaded into transporting vehicles, and preparing and keeping records of goods shipped, e.g., manifests, bills of lading. Receiving duties typically involve the following: verifying the correctness of incoming shipments by comparing items and quantities unloaded against bills of lading, invoices, manifests, storage receipts, or other records, checking for damaged goods, insuring that goods are appropriately identified for routing to departments within the establishment, and preparing and keeping records of goods received.

Senior Electrician Journeyman

The Senior Electrician Journeyman performs a variety of expert and challenging electrical trade functions such as the installation, maintenance, or repair of equipment for the generation, distribution, or utilization of electric energy. Work involves installing or repairing any of a variety of electrical equipment such as generators, transformers, switchboards, controllers, circuit breakers, motors, heating units, conduit systems, or other transmission equipment; working from blueprints, drawings, layouts, or other specifications, locating and diagnosing trouble in the electrical system or equipment, and working complex computations relating to load requirements of wiring or electrical equipment.

Senior Electrician Lead

The Senior Electrician Lead performs a variety of expert and challenging electrical trade functions such as the installation, maintenance, or repair of equipment for the generation, distribution, or utilization of electric energy. Work involves installing or repairing any of a variety of electrical equipment such as generators, transformers, switchboards, controllers, circuit breakers, motors, heating units, conduit systems, or other transmission equipment; working from blueprints, drawings, layouts, or other specifications, locating and diagnosing trouble in the electrical system or equipment, and working complex computations relating to load requirements of wiring or electrical equipment. This position provides guidance and supervision of other electricians.

UPS Technician

Responsible for commissioning, maintaining and repairing critical power systems. Performs a complete visual inspection of the equipment including connections (input, output, internal), subassemblies, wiring harnesses, contacts, cables and major components. Checking air filters for cleanliness. Checking module(s) completely for the following (if applicable): Rectifier and inverter snubber boards for discoloration, power capacitors for swelling or leaking oil. Recording all voltage and current meter readings on the module control cabinet or the system control cabinet. Also includes checking the inverter and rectifier snubbers for burned or broken wires. Check all nuts, bolts, screws, and connectors for tightness and heat discoloration. Check fuses on the DC capacitor deck for continuity. Performs operational test of the system including unit transfer and battery discharge. Calibrates and records all electronics to system specifications. Installs or

performs Engineering Field Change Notices (FCN) as necessary. Measures and records all low-voltage power supply levels. Measures and records phase-to-phase input voltage and currents.

Fire Alarm Helper

The Fire Alarm Helper works closely in conjunction with Fire Alarm Technicians to assist in inspecting, testing, maintaining, and repairing installed fire alarm detection and suppression systems in accordance with manufacturer's specifications and National Fire Protection Association standards.

FAC Fire Alarm Tech III

Responsible for providing inspection, testing and maintenance service for fire sprinkler equipment to comply with NFPA25 Standards as well as state and local codes; completing required documentation including deficiency repair recommendations; performing and/or coordinating work for compliance. Performs assigned tasks on Sprinkler systems. Tasks to include minor repair, as well as visual and functional testing on fire sprinkler systems in accordance with all national and local standards.

Elevator Journeyman Technician

The Elevator Journeyman Technician is an expert in repairing and maintaining "Automated People Movers" and like named devices used in the transportation of people and materials including, but not limited to elevators, escalators, dumbwaiters, and moving walkways to meet safety regulations and building codes. Trouble shoots and determines causes of trouble in brakes, electrical motors, switches, signal and control systems, using computers, test lamps, voltmeters, ammeters, and oscilloscopes, disassembles defective units and repairs or replaces parts such as electrical door locks, cables, electrical wiring and faulty safety devices installs push button control systems, complete control systems, and other devices to modernize automated people mover systems, and cleans and lubricates bearing and other parts to minimize friction.

Elevator Technician Helper

The Elevator Technician Helper works directly in conjunction with the Elevator Journeyman Technician to assist in the repair and maintenance of "Automated People Movers" and like named devices used in the transportation of people and materials including, but not limited to elevators, escalators, dumbwaiters, and moving walkways to meet safety regulations and building codes.

Pneudralic Systems Mechanic

The Pneudraulic Systems Mechanic maintains, modifies, and repairs hydraulic and pneumatic systems and components that actuate mechanisms or produce, control, and regulate the flow of fluids (liquids and gases), tests for and isolates malfunctions in hydraulic and pneumatic systems or components, utilizing technical manuals and schematics, and modifies, repairs or disassembles and overhauls systems or components.

Senior Generator Maintenance Mechanic

Provides expertise on electrical concepts and principals to diagnose and repair electric motors, electronic modules, motor control circuits, and electric power generation equipment. Installs,

repairs, maintains and adjusts instruments used to measure and control variables such as pressure, flow, temperature, motion, force and chemical composition.

Specialty Door Mechanic

Assemble, install, test, and maintain automatic door equipment, appliances, apparatus, and fixtures, using hand tools and power tools. Diagnose malfunctioning control systems, apparatus, and components, using test equipment and hand tools, to locate the cause of a breakdown and correct the problem. Fastening of components/accessories to varying building fabrics. Inspect Automatic Door systems, equipment, and components to identify hazards, defects, and the need for adjustment or repair, and to ensure compliance with codes of practice. Ensure tools and equipment requiring PAT testing is within date when used on site. Identify hazardous equipment, advise clients management and make safe accordingly. Adjust doors to open or close with the correct amount of effort and make simple adjustments to electric openers. Diagnose malfunctioning control systems, apparatus, and components, using test equipment and hand tools, to locate the cause of a breakdown and correct the problem. Inspect Automatic Door systems, equipment, and components to identify hazards, defects, and the need for adjustment or repair, and to ensure compliance with codes of practice. Identify hazardous equipment, advise clients management and make safe accordingly. Fasten angle iron back-hangers to ceilings and tracks, using fasteners or welding equipment. Repair or replace worn or broken door parts, using hand tools. Install door frames, rails, electronic-eye mechanisms, and electric door openers and closers, using power tools, hand tools, and electronic test equipment.

Senior HVAC Mechanic Lead

Supervises HVAC maintenance staff and reviews work completed by others. Installs, services and repairs environmental control systems in residences, department stores, office buildings and other commercial establishments, utilizing knowledge of refrigeration theory, pipefitting and structural layout. Mounts compressor and condenser units on platform or floor, using hand tools, following blueprints or engineering specifications. Fabricates, assembles and installs ductwork and chassis parts, using portable metalworking tools and welding equipment. Installs evaporator unit in chassis or in airduct system, using hand tools. Cuts and bends tubing to correct length and shape, using cutting and bending equipment and tools. Cuts and threads pipe, using machine threading or hand threading equipment. Joins tubing or pipes to various refrigerating units by means of sleeves, couplings or unions, and solders joints, using torch, forming complete circuit for refrigerant. Installs expansion and discharge valves in circuit. Connects motors, compressors, temperature controls, humidity controls and circulating ventilation fans to control panels and connects control panels to power source. Installs air and water filters in completed installation. Injects small amount of refrigerant into compressor to test systems and adds Freon gas to build up prescribed operating pressure. Observes pressure and vacuum gauges and adjusts controls to insure proper operation. Tests joints and connections for gas leaks, using gauges or soap and water solution. Wraps pipes in insulation batting and secures them in place with cement or wire bands. Replaces defective breaker controls, thermostats, switches, fuses and electrical wiring to repair installed units, using electrician's hand tools and test equipment. May install, repair and service air conditioners, ranging from fifteen to twenty tons cooling capacity, in warehouses and small factory buildings.

Senior HVAC Mechanic Journeyman

The Senior Heating, Ventilation, and Air-Conditioning Mechanic Journeyman is an expert in the field. Installs, services and repairs environmental-control systems in residences, department stores, office buildings, and other commercial establishments, utilizing knowledge of refrigeration theory, pipefitting and structural layout, mounts compressor and condenser units on platform or floor, using hand tools, following blueprints or engineering specifications, fabricates, assembles and installs ductwork and chassis parts, using portable metalworking tools and welding equipment, and installs evaporator unit in chassis or in air-duct system, using hand tools. This mechanic also cuts and bends tubing to correct length and shape, using cutting and bending equipment and tools, cuts and threads pipe, using machine threading or hand-threading equipment, joins tubing or pipes to various refrigerating units by means of sleeves, couplings or unions, and solders joints, using torch, forming complete circuit for refrigerant, installs expansion and discharge valves in circuit. This worker connects motors, compressors, temperature controls, humidity controls, and circulating ventilation fans to control panels and connects control panels to power source; installs air and water filters in completed installation, injects small amount of refrigerant into compressor to test systems and adds Freon gas to build up prescribed operating pressure. This mechanic observes pressure and vacuum gauges and adjusts controls to insure proper operation, tests joints and connections for gas leaks, using gauges or soap-and-water solution, wraps pipes in insulation batting and secures them in place with cement or wire bands, replaces defective breaker controls, thermostats, switches, fuses and electrical wiring to repair installed units, may install, repair and service air conditioners, ranging from fifteen to twenty tons cooling capacity in warehouses and small factory buildings

Ventilation Equipment Tender

Tends ventilating and heating equipment, such as fans, vacuum pumps, air compressors, vents and ducts, and lubrication-oil coolers used in buildings or industrial processes; adjusts valves to regulate temperature of lubrication oil and flow of water through system, moves controls to regulate speed of fans, adjust vents and ducts, records gauge readings, and repairs completed, and time lost because of inoperative equipment. This worker writes repair work order tickets and out-of-order tags preparatory to equipment repair, inspects equipment to detect excessive noise and heat, replaces gauges and tightens and chalks leaky fittings, using wrenches, hammers, and chalking tool, cleans carbon deposits, pitch, and grease from fans, vents and ducts, using scrapers, hammer, and compressed air or steam.

Senior Refrigeration Engineer

Maintains and repairs refrigeration, air conditioning, heating, and ventilation systems, makes periodic inspections of equipment and systems including connected auxiliaries such as refrigerators, drinking fountains, and ice-making machines. Duties include replacing pumps and compressors, cleaning condensers and ducts, replacing worn or defective parts, and keeping complete records on operation, maintenance, and repair of equipment. Perform prescribed, predictive, and routine maintenance procedures on supermarket refrigeration systems and self-contained temperature-controlled merchandisers. Braze any metal or dissimilar metals (copper to: brass or aluminum.) Ability to locate and repair refrigerant leaks. Able to recognize deficiencies in pipe hangers and properly repair them, Is proficient at line sizing on small and large projects. Know the proper way to pipe a coil for hot gas or Koolgas defrost. Understand how varying loads affect TXV operation. Know how to properly leak check water-cooled condensers. Able to

troubleshoot any electrical problem, offer solutions, and implement them. Able to check and test all defrost components on low temperature application. Know how to repair complex technical problems as they relate to the refrigeration system. Know the importance of using factory-specified TD design criteria when diagnosing case problems. Understand how the RMCS controller (Danfoss, CPC, Novar) controls each component by input data.

Senior Maintenance Carpenter Lead

The Senior Maintenance Carpenter Lead is responsible for supervising and coordinating the work of a crew of technical staff as well as ensuring that all work installed is completed on time, on budget and according to all applicable plans, specifications, codes and industry standards. Performs the carpentry duties necessary to maintain in good repair building woodwork and equipment such as bins, cribs, counters, benches, partitions, doors. Work involves most of the following: planning and laying out of work from blueprints, drawings, models, or verbal instructions, using a variety of carpenter's hand tools, portable power tools and standard measuring instruments, and making standard shop computations relating to dimensions of work; and selecting materials necessary for the work.

Senior Maintenance Carpenter

The Senior Maintenance Carpenter performs complex carpentry duties necessary to maintain in good repair building woodwork and equipment such as bins, cribs, counters, benches, partitions, doors. Work involves most of the following: planning and laying out of work from blueprints, drawings, models, or verbal instructions, using a variety of carpenter's hand tools, portable power tools and standard measuring instruments, and making standard shop computations relating to dimensions of work; and selecting materials necessary for the work.

Woodworker

The Woodworker constructs and repairs items such as boxes, crates, pallets, and storage bins from wood and wood substitutes, studies specifications; and measures, marks, and cuts boards, using patterns, templates, ruler, pencil, and hand and power saws. This worker fastens or installs parts, using hammer, nailing machine, or power staple, repairs defective containers by replacing damaged parts, inserts wood bracings, cardboard files, and felt pads in containers.

General Maintenance Worker

The General Maintenance Worker performs general maintenance and repair of equipment and buildings requiring practical skill and knowledge (but not proficiency) in such trades as painting, carpentry, plumbing, masonry, and electrical work. Work involves a variety of the following duties: replacing electrical receptacles, wires, switches, fixtures, and motors, using plaster or compound to patch minor holes and cracks in walls and ceilings, repairing or replacing sinks, water coolers, and toilets painting structures and equipment; repairing or replacing concrete floors, steps, and sidewalks, replacing damaged paneling and floor tiles, hanging doors and installing door locks, replacing broken window panes, and performing general maintenance on equipment and machinery.

Senior Locksmith

The Senior Locksmith performs complex installations, repairs, modifications on a variety of locking mechanisms found on doors, desks, compartments, mobile equipment, safes, and vaults. Examines locking mechanism and installs new unit or disassembles unit and replaces worn tumblers, springs, and other parts or repairs them by filing, drilling, chiseling and grinding, opens door locks by moving lock pick in cylinder or opens safe locks by listening to lock sounds or drilling.

Senior Locksmith Lead

The Senior Locksmith Lead oversees other staff members who install, repair, modify, and open a variety of locking mechanisms found on doors, desks, compartments, mobile equipment, safes, and vaults. This worker assured the work performed by other locksmiths is accurate and completed per specifications.

Floor Tile Installer - Helper

Assists the Floor Tile Installer - Journeyman in performing repairs to concrete walls, floors walls and ceilings. Assists with laying brick and/or stone, setting ceramic floors and/or wall tiles as well as performing masonry demolition and patching as required.

Floor Tile Installer - Journeyman

Performs complex repairs to concrete walls, floors walls and ceilings. Lays brick and/or stone, sets ceramic floors and/or wall tiles as well as performing masonry demolition and patching as required.

Roofer-Helper

Assists the Roofer in all aspects of moving, cutting, measuring and application of roofing materials.

Roofer

Cover roofs of structures with shingles, slate, tiles, asphalt, aluminum, wood, or related materials. May spray roofs, sidings, and walls with material to bind, seal, insulate, or soundproof sections of structures. Apply alternate layers of hot asphalt or tar and roofing paper to roofs, according to specification. Apply gravel or pebbles over top layers of roofs, using rakes or stiff-bristled brooms. Apply plastic coatings and membranes, fiberglass, or felt over sloped roofs before applying shingles. Cement or nail flashing-strips of metal or shingle over joints to make them watertight. Cut felt, shingles, and strips of flashing; and fit them into angles formed by walls, vents, and intersecting roof surfaces. Inspect problem roofs to determine the best procedures for repairing them. Waterproof and damp-proof walls, floors, roofs, foundations, and basements by painting or spraying surfaces with waterproof coatings, or by attaching waterproofing membranes to surfaces. Estimate roofing materials and labor required to complete jobs and provide price quotes.

Glass and Security Film Technician

Cut, fit, install, repair, and replace glass and glass substitutes, such as plastic and aluminum, in building interiors or exteriors and in furniture or other products. Measure, cut, fit, and press anti-glare, security and blast-protection adhesive film to glass, or spray glass with tinting solution to prevent light glare. Read and interpret blueprints and specifications to determine size, shape, color, type, and thickness of glass, location of framing, installation procedures, and staging and scaffolding materials required. Create patterns on glass by etching, sandblasting, or painting designs.

Senior Maintenance Painter

The Senior Maintenance Painter provides complex and challenging solution to painting projects based on substrates, climactic conditions and paint/coating types. Work involves the following: superior knowledge of surface peculiarities and types of paint required for different applications, preparing surface for painting by removing old finish or by placing putty or filler in nail holes and interstices, and applying paint with spray gun or brush. Mixing colors, oils, white lead and other paint ingredients to obtain proper color or consistency.

Senior Maintenance Painter Lead

The Senior Maintenance Painter Lead provides complex and challenging solution to painting projects based on substrates, climactic conditions and paint/coating types as well as supervising and guiding other painting staff members. Work involves the following: superior knowledge of surface peculiarities and types of paint required for different applications, preparing surface for painting by removing old finish or by placing putty or filler in nail holes and interstices, and applying paint with spray gun or brush. Mixing colors, oils, white lead and other paint ingredients to obtain proper color or consistency.

Carpet Layer

The Carpet Layer prepares floor by removing old carpet or other covering, stripping, patching, or cleaning floor, measures and cuts carpeting to size, using carpet knife; lays padding and places carpeting on top of padding, cuts, trims, and stretches carpeting to fit along wall edges, openings, and projections, installs metal edging and metal door strips; may lay carpet tiles, applying adhesive to floor, and transport carpeting to installation site.

Sheet Metal Worker, Maintenance

The Sheet-Metal Worker, Maintenance fabricates, installs and maintains in good repair the sheet-metal equipment and fixtures (such as machine guards, grease pans, shelves, lockers, tanks, ventilators, chutes, ducts, metal roofing) of an establishment. Work involves most of the following: planning and laying out all types of sheet-metal maintenance work from blueprints, models, or other specifications, setting up and operating all available types of sheet-metal working machines, using a variety of hand tools in cutting, bending, forming, shaping, fitting and assembling, and installing sheet-metal articles as required. In general, the work of the maintenance sheet-metal worker requires rounded training and experience usually acquired through a formal apprenticeship or equivalent training and experience.

Senior Journeyman Plumber

The Senior Journeyman Plumber provides complex and challenging solutions relating to the assembly, installation and repair to pipes, fittings and fixtures of heating, water, and drainage systems, according to specifications and plumbing codes, studies building plans and working drawings to determine work aids required, and sequence of installations. This position has in-depth knowledge of structure to ascertain obstructions to be avoided to prevent weakening of structure resulting from installation of pipe and locates and marks position of pipe and pipe connections and passage holes for pipes in walls and floors. Provides consultation on those issues requiring this level of knowledge.

Senior Maintenance Plumber

The Senior Maintenance Plumber provides complex and challenging solutions relating to assembling and installing valves, pipefittings, and pipes composed of metals, such as iron, steel, brass and lead, and nonmetals, such as glass, vitrified clay, and plastic. Joins pipe by use of screws, bolts, fittings, solder, plastic solvent, and caulks joints, fills pipe system with water or air and reads pressure gauges to determine whether system is leaking, installs and repairs plumbing fixtures, such as sinks, commodes, bathtubs, water heaters, hot water tanks, garbage disposal units, dishwashers, and water softeners. This person repairs and maintains plumbing by replacing washers in leaky faucets, mending burst pipes, and opening clogged drains, and may weld holding fixtures to steel structural members.

Water Treatment Plant Operator

Controls treatment plant machines and equipment to purify and clarify water for human consumption and for industrial use. Operates and controls electric motors, pumps, and valves to regulate flow of raw water into treating plant and dumps specified amounts of chemicals such as chlorine, ammonia, and lime into water, or adjusts automatic devices that admit specified amounts of chemicals into tanks to disinfect, deodorize, and clarify water. Starts agitators to mix chemicals and allows impurities to settle to bottom of tank, turns valves to regulate water through filter beds to remove impurities, pumps purified water into water mains, monitors panel board and adjusts controls to regulator flow rates, loss of head pressure and water elevation and distribution of water. Cleans tanks and filter beds, using backwashing (reverse flow of water), repairs and lubricates machines and equipment, using hand- and power tools, tests water samples to determine acidity, color, and impurities, using colorimeter, turbidimeter, and conductivity meter. Work includes dumping chemicals such as alum into tanks to coagulate impurities and reduce acidity, recording data, such as residual content of chemicals, water turbidity, and water pressure.

Pipefitter, Maintenance

The Pipefitter, Maintenance installs or repairs water, steam, gas or other types of pipe and pipefitting. Work involves most of the following: laying out work and measuring to locate position of pipe from drawings or other written specifications, cutting various sizes of pipe to correct lengths with chisel and hammer, oxyacetylene torch or pipe-cutting machines, threading pipe with stocks and dies. This person is responsible for bending pipe by hand-driven or power-driven machines, assembling pipe with couplings and fastening pipe to hangers, making standard shop computations relating to pressures, flow and size of pipe required; and making standard tests to determine whether finished pipes meet specifications.

Boiler Tender

The Boiler Tender oversees and performs the operations and maintenance of central heating plants. Tends one or more boilers to produce steam or high-temperature water for use in an establishment, fires boiler, observes and interprets readings on gauges, meters, and charts which register various aspects of boiler operation, adjusts controls to insure safe and efficient boiler operation and to meet demands for steam or high temperature water. Also maintains a log in which various aspects of boiler operation are recorded; cleans, oils, makes minor repairs or assists in repair to boiler room equipment; and following prescribed methods, treats boiler water with chemicals and analyze boiler water for such things as acidity, causticity, and alkalinity.

Machinery Maintenance Mechanic

The Machinery Maintenance Mechanic produces replacement parts and new parts in making repairs of metal parts of mechanical equipment. Work involves most of the following: interpreting written instructions and specifications, planning and laying out of work, using a variety of machinist's hand tools and precision measuring instruments, setting up and operating standard machine tools. Is responsible for the shaping of metal parts to close tolerances, making standard shop computations relating to dimensions of work, tooling, feeds, and speeds of machining; knowledge of the working properties of the common metals, selecting standard materials, parts, and equipment required for this work; and fitting and assembling parts into mechanical equipment.

Stationary Engineer

The Stationary Engineer operates and maintains one or more systems that provide an establishment with such services as heat, air-conditioning (cool, humidify, dehumidify, filter, and circulate air), refrigeration, steam or high-temperature water or electricity. Duties involve: observing and interpreting readings on gauges, meters and charts which register various aspects of the system's operation, adjusting controls to insure safe and efficient operation of the system and to meet demands for the service provided, recording in logs various aspects of the system's operation, keeping the engines, machinery and equipment of the system in good working order. This engineer may direct and coordinate activities of other workers (not stationary engineers) in performing tasks directly related to operating and maintaining the system or systems.

Subject Matter Expert / Degreed Engineer

To support management, organizational and business tasks, consult as a subject area expert to solve complex problems in technical areas, including but not limited to engineering, science, logistics, asset management, operations, research, program management, risk, information technology, finance, acquisition, etc. Collaborate with customer(s) to determine specific needs and requirements and to counsel within the expert area, including overseeing task execution. provide expert technical analyses and advice in specific technical areas to support management, organizational and business decisions. Participate in meetings, task groups, teams, reviews and other environments to assist in collaborative results. Conduct site visits, investigations and studies to gather information. Prepare reports, presentations and papers to document findings, opinions and recommendations.

Maintenance Trades Helper

Helper assists one or more workers in the skilled maintenance trades by performing specific or general duties of lesser skill such as: keeping a worker supplied with materials and tools, cleaning working area, machine, and equipment; assisting journeyman by holding materials or tools; and performing other unskilled tasks as directed by journeyman. The kind of work the helper is permitted to perform varies from trade to trade. In some trades the helper is confined to supplying, lifting, and holding materials and tools, and cleaning working areas and in others, the worker is permitted to perform specialized machine operations, or parts of a trade that are also performed by workers on a full-time basis.

Laborer

The Laborer performs tasks that require mainly physical abilities and effort involving little or no specialized skill or prior work experience. The following tasks are typical of this occupation: The Laborer loads and unloads trucks, and other conveyances, moves supplies and materials to proper location by wheelbarrow or hand truck; stacks materials for storage or binning, collects refuse and salvageable materials, and digs, fills, and tamps earth excavations, The Laborer levels ground using pick, shovel, tamper and rake, shovels concrete and snow; cleans culverts and ditches, cuts tree and brush; operates power lawnmowers, moves and arranges heavy pieces of office and household furniture, equipment, and appliance.

Laborer, Grounds Maintenance Lead

Responsible for facility operations, maintenance and repair services; custodial services; grounds maintenance; and refuse waste and recycling collection and disposal. Primary responsibility is the day to day operation and maintenance of a multi-skilled workforce performing operation and maintenance of facilities to include electrical, HVAC, plumbing systems, and managing operation of an energy monitoring and control system (EMCS).

Laborer, Grounds Maintenance

The Laborer, Grounds Maintenance maintains grounds of industrial, commercial or public property such as buildings, camp and picnic grounds, parks, playgrounds, greenhouses, and athletic fields, and repairs structures and equipment, performing one or more of the following tasks: cut grass, using walking-type or riding mowers , trim hedges and edges around walks, flowerbeds, and wells, using hedge trimmers, clippers and edging tools, prunes shrubs and trees to shape and improve growth, using shears and other hand tools, sprays lawn, shrubs, and trees with fertilizer or insecticide.

Gardener

Plans and executes small scale landscaping operations and maintains grounds and landscape of household, business and other properties. Works with assistant in preparing and grading terrain, applying fertilizers, seeding and sodding lawns, and transplanting shrubs and plants, and cultivates them, using gardening implements and power-operated equipment. Plants new and repairs established lawns, using seed mixtures and fertilizers recommended for particular soil type and lawn location. Locates and plants shrubs, trees, and flowers recommended for particular landscape effect or those selected by property owner. Mows and trims lawns, using hand or power mower. Trims shrubs and cultivates gardens. Sprays trees and shrubs and applies supplemental

liquid and dry nutrients to lawn, trees and shrubs. Cleans ground, using rakes, brooms, and hose. May dig trenches and install drain tiles. May repair concrete and asphalt walks and driveways.

Tree Care Specialist

The Tree Care Specialist identifies and inspects trees for damage and/or diseases. Uses loppers to remove limbs from designated trees, applies spacing guidelines for selection of best trees, and cuts or severs all live or dead limbs of selected trees to a specified height.

Pest Controller, Lead

The Pest Controller Lead coordinates all activities of a facility pest control operation. Supervises staff as they inspect facilities such as Dining Facilities and Commissaries periodically and prepares reports. Sprays chemical solutions or toxic gases and sets mechanical traps to kill pests that infest buildings and surrounding areas, fumigates rooms and buildings using toxic gases, sprays chemical solutions or dusts powders in rooms and work areas, places poisonous paste or bait and mechanical traps where pests are present; may clean areas that harbor pests, using rakes, brooms, shovels, and mops preparatory to fumigating; and may be required to hold State license.

Pest Controller

The Pest Controller inspects facilities such as Dining Facilities and Commissaries periodically and prepares reports. Sprays chemical solutions or toxic gases and sets mechanical traps to kill pests that infest buildings and surrounding areas, fumigates rooms and buildings using toxic gases, sprays chemical solutions or dusts powders in rooms and work areas, places poisonous paste or bait and mechanical traps where pests are present; may clean areas that harbor pests, using rakes, brooms, shovels, and mops preparatory to fumigating; and may be required to hold State license.

Housekeeping Aide

The Housekeeping Aide performs special cleaning projects as well as daily cleaning duties in accordance with standard procedures of the housekeeping department and with hospital objectives. An employee uses cleaning equipment, including automatic floor machines, commercial vacuums, wet mops, large wringers and other necessary equipment, tools, chemicals and supplies. The Housekeeping Aide will dry and wet mop floors, scrub and buff floors with rotor and other machines, vacuum carpets to clean and control bacteria, transport trash from utility rooms and other collection points to incinerator, compactor, or pick-up area, perform special cleaning of induction units, walls, lighting fixtures, and windows, both inside and outside, move furniture and set up meeting rooms.

Dry Cleaner

Work involves most of the following: knowledge of cleaning processes, fabrics, and colors, placement of sorted articles in drum of cleaning machine, operation of valves to admit cleaning fluids into drum of machine, starting of the drum, allowance of the drum to rotate until articles are cleaned and removal of articles from machine, and the rining and filtering of cleaning fluid.

In addition, the Dry Cleaner may operate an extractor or tumbling machine or place articles in a cabinet dryer.

Window Cleaner

The Window Cleaner cleans windows, glass partitions, mirrors, and other glass surfaces of building interior or exterior, using pail of soapy water or other cleaner, sponge, and squeegee, crawls through windows from inside and hooks safety belt to brackets for support; sets and climbs ladder to reach second or third story; uses basin chair, swings stage or other scaffolding lowered from roof to reach outside windows; or stands to reach first floor or inside windows.

CBA Rates Specific for Washington, DC IUOE

Chief Engineer

The primary function of the Engineering Supervisor is to ensure all equipment is fully operations at all times and in compliance with GSA requirements, District of Columbia, federal codes/laws, rules and regulations. The chief supervises all employees assigned under this contract. He/she shall provide management oversight for all phases of the Operation and Maintenance at the St. Elizabeth's Complex. In addition to supervising personnel, a Chief Engineer oversees policies, procedures, protocols and controls that govern operations. In addition of project management. a chief engineer sets goals and objectives — short and long term for the staff, Selects and coordinates work of all subcontractors needed for operations and preventive maintenance.

Assistant Chief Engineer

Assistant Chief Engineer is responsible for the safe and efficient operation of all equipment in the power plants. Also, is responsible for notification and organizing personnel in response to emergency calls after hours. The Assistant Chief Engineer is responsible for supervision of engineer leads, scheduling, assigning and completion of all preventive maintenance tasks and service orders for equipment associated with the power plant. The Assistant Chief Engineer reports directly to the Chief Engineer and is responsible for all associated reports involving the equipment in the main power plants. Performs other duties as assigned

Lead Engineer

The Lead Engineer shall be in complete charge of the unit of the Employer to which he/she is assigned and under the direct supervision of the Chief Engineer. Is responsible for the safe and efficient operation and maintenance of the facility. May direct and coordinate activities of other workers in performing tasks related to operating and maintaining the system or systems

Engineer

Responsible for the safe and efficient operation and maintenance during his/hers watch of all equipment in his/her plant as defined in Section 1.1. 1 above. Operates and maintains one or more systems which provides the facility with such services as heat, air- conditioning (cool,

Humidify, dehumidify, filter, and circulate air), refrigeration, steam or high temperature water or electricity, Duties involve: observing and interpreting readings on gauges, meters and charts which register various aspects of the system's operation, adjusting controls to insure safe and efficient operation of the system and to meet demands for the service provided; recording in logs various aspects of the system's operation; keeping the engines, machinery and equipment of the system in good working order. May direct and coordinate activities of other workers (not stationary engineers) in performing tasks directly related to operating and maintaining the system or systems

HVAC Mechanic, Lead

As a working lead, this individual is responsible to his/her immediate supervisor for the safe and efficient operation of all equipment in his/her specialty qualification and for emergency notification of proper supervisory personnel as needed. He/She is also responsible for the scheduling and daily production of work assigned to the employees under his/her supervision. Installs, services and repairs environment-control systems in residence, department stores, office buildings and other commercial establishments, utilizing knowledge of refrigeration theory, pipefitting and structural layout. Mounts compressor and condenser units on platform or floor, using hand tools, following blueprints or engineering specifications. Fabricates, assembles and installs ductwork. Fabricates, assembles and installs ductwork and chassis parts. using portable metalworking tools and welding equipment. Installs evaporator unit in chassis or in air-duct system, using hand tools. Cuts and bends tubing to correct length and shape. using cutting and bending equipment and tools. Cuts and threads pipe using machine-threading or hand-threading equipment. Joins tubing or pipes to various refrigerating units by means of sleeves, couplings or unions, and solders joints using torch, forming complete circuit for refrigerant. Installs expansion and discharge valves in circuit. Connects motors, compressors, temperature controls, humidity controls and circulating ventilation fans to control panels and connects control panels to power source. Installs air and water filters in completed installation. Injects small amount of refrigerant into compressor to test systems and adds Freon gas to build up prescribed operating pressure. Observes pressure and vacuum gauges and adjusts controls to insure proper operation. Tests joints and connections for gas leaks, using gauges of soap-and-water solution. Wraps pipes in insulation batting and secures them in place with cement or wire bands. Replaces defective breaker controls, thermostats, switches, fuses and electrical wiring to repair installed units, using electrical wiring to repair installed units, using electrician 's hand tools and test equipment. May install, repair and service air conditioners, (15 20 tons cooling capacity) in warehouses and small factory buildings.

HVAC Mechanic

Installs, services and repairs environment-control systems in residences, department stores, office buildings and other commercial establishments, utilizing knowledge of refrigeration theory, pipefitting and structural layout. Mounts compressor and condenser units on platform or floor, using hand tools, following blueprints or engineering specifications. Fabricates, assembles and installs ductwork. Fabricates, assembles and installs ducts work and chassis parts, using portable metalworking tools and welding equipment. Installs evaporator unit in chassis or in air- duct system, using hand tools. Cuts and bends tubing to correct length and shape, using cutting and bending equipment and tools. Cuts and threads pipe, using machine- threading or hand-threading equipment. Joins tubing or pipes to various refrigerating units by means of sleeves. couplings or unions. and solders joints, using torch, forming complete circuit for refrigerants. Installs expansion and discharge valves in circuit. Connects motors, compressors, temperature controls, humidity

controls and circulating ventilation fans to control panels and connects control panels to power source. Installs air and water filters in completed installation. Injects small amount of refrigeration compressor to test systems and adds freon gas to build up prescribed operating pressure. Observes pressure and vacuum gauges and adjusts controls to insure proper operation. Tests joints and connections for gas leaks, using gauges or soap-and-water solution. Wraps pipes in insulation batting and secures them in place with cement or wire bands. Replaces defective breaker controls, thermostats, switches, fuses and electrical wiring to repair installed units, using electrical wiring to repair installed units, using electrician's hand tools and test equipment. May install, repair and service air conditioners, (15 — 20 tons cooling capacity) in warehouses and small factory buildings.

HVAC Controls Technician

Installs, repairs, maintains and adjusts indicating, recording, telemetering and controlling instruments used to measure and control variables, such as pressure, flow, temperature, motion, force, and chemical composition, using hand tools and precision instruments. Disassembles malfunctioning instruments and examines and tests mechanism and circuitry for defects. Troubleshoots equipment in or out of control system and replaces or repairs defective parts. Reassembles instrument and tests assembly for conformance with specifications, using instruments, such as potentiometer, resistance bridge, manometer. And pressure gauge. Inspects instruments periodically and makes minor calibration adjustments to insure functioning within specified standards. May adjust and repair final control mechanisms, such as automatically controlled valves and positioners. Must possess a DC Journeyman's license and control system certification. May calibrate instruments according to established standards. Performs other duties as assigned.

Maintenance Mechanic

Performs maintenance and repairs to all equipment as defined in Section 1.1.I above as it pertains to his/her trade under the direct supervision of his/her immediate superior. He/she shall at no time be assigned or stand an engineer's watch. Repairs machinery or mechanical equipment. Work involves most of the following: examining machines and mechanical equipment to diagnose source of trouble; dismantling or partly dismantling machines and performing repairs that mainly involve the use of hand tools in scraping and fitting parts; replacing broken or defective parts with items obtained from stock; ordering the production of a replacement part by a machine shop or sending the machine to a machine shop for major repairs; preparing written specifications for major repairs or for the production of parts ordered from machine shops; reassembling machines and making all necessary adjustments for operation. In general, the work of a Maintenance Mechanic requires rounded training and experience usually acquired through a formal apprenticeship or equivalent training and experience. Excluded from this classification are workers whose primary duties involve setting up or adjusting machines.

General Maintenance Worker

Performs general maintenance and repair of equipment and building requiring practical skill and knowledge (but not proficiency) in such trades as painting, carpentry, plumbing, masonry, and electrical work. Work may involve the following duties: replacing electrical receptacles, wires, switches, fixtures, and motors; using plaster or compound to patch minor holes and cracks in walls and ceilings, repairing or replacing sinks, water coolers, and toilets; painting structures and

equipment: repairing or replacing concrete floors, steps, and sidewalks; replacing damaged paneling and floor tiles; hanging doors and installing door locks; replacing broken window panes; and performing general maintenance on equipment and machinery. Performs other duties as assigned.

Plumber, Lead

As a working lead and technical expert, this individual is responsible to his immediate supervisor for the safe and efficient operation of all equipment and components in his/her specialty, assigns work with quality control and in the absence of other leads, will provide direction as needed. Must have 10 years of plumbing plant experience for maintaining and upgrading plumbing equipment, piping, etc. Performs corrective and preventative maintenance on all plumbing related equipment. Other responsibilities include, but are not limited to, installing and/or repairing various plumbing equipment (water heaters, drinking fountains, toilets, sinks, etc.) throughout the facility. Also, must be certified /licensed in pipefitting, steam fitting or sprinkler systems.

Plumber

Responsible for maintaining and upgrading plumbing equipment, piping, etc. Performs corrective and preventative maintenance on all plumbing related equipment. Other responsibilities include, but are not limited to, installing and/or repairing various plumbing equipment (water heaters, drinking fountains, toilets, sinks, etc.) throughout the facility. Also, a Plumber I must be certified/licensed in pipefitting, steam fitting or sprinkler systems.

Structural Lead

As a working lead, responsible to his her immediate supervisor. for the safe and efficient operation of all equipment in his/her specialty qualification and for emergency y notification of proper supervisory personnel as needed. Also, responsible for the scheduling and daily production of work assigned to the employees under his/her supervision.

Carpenter

Is responsible for performing a variety of carpentry duties as assigned. Carpentry services include, but are not limited to, the design, construction, installation and repair of wooden fixtures and structures such as cabinets, furniture, shelving, doors, plaques, and other custom wood products. Other duties include, but are not limited to, framing and finish work, painting, staining, etc. Monitors subcontractor performance as assigned, conducts jobsite troubleshooting and performs primary project layout and carpentry production.

Painter

Paints and redecorates walls, woodwork and fixtures, as well as desks, tables, cabinets (metal and wood), machinery and curbs. Work involves the following: knowledge of surface peculiarities and types of paint required for different applications; preparing surface for painting by removing Old finish or by placing putty or Miller in nail holes and interstices; and applying paint with spray gun or brush. May mix colors, oils, white lead and other paint ingredients to obtain proper color or consistency. In addition to painting, responsible for taping and texturing of drywall as required. May be required to assist Maintenance Mechanic in duties that parallel a painter's primary tasks.

Locksmith

Installs, repairs, replace and maintain locks; open locks without keys by picking, drilling, and duplicating keys. Install door locks, replace and install all finished buildings hardware such as door closures, panic bars, repair locks on file cabinets, desks, and other pieces of furniture. Establish/maintain accurate records of key assignments. record changes in key and lock assignments. work from preventive maintenance schedules, use and operate tools of the trade and respond to emergency calls. Perform other job-related work as assigned.

Maintenance Helper

Performs all assigned duties under the immediate supervision of the Lead Engineer or his/her designee. Assists one or more workers in the skilled maintenance trades by performing specific or general duties of lesser skill, such as keeping a worker supplied with materials and tools; cleaning working area, machine and equipment; assisting journeyman by holding materials or tools; and performing other unskilled tasks as directed by journeyman. The kind of work the helper is permitted to perform varies from trade to trade. In some trades, the helper is confined to supplying, lifting, and holding materials and tools, and cleaning working areas; and in others, the worker is permitted to perform specialized machine operations, or parts of a trade that are also performed by workers on a full- time basis.

Snow Removal Operator

Specialist in all aspects of snow removal. Capable of manual snow removal, proper use and application of ice melt or other materials, and capable of operating equipment such as gas sweepers, blowers, front loaders, bobcats, dump trucks or state body trucks.

Snow Removal Supervisor

Manage, plan and supervise all aspects of a snow removal program. Review clients' needs and timelines. Determine staff, materials and assets needed to effectively and safely move and remove snow, ice and other debris. Liase with client to review and/or revise the program as needed.

Junior UPS Technician

Entry Level Position responsible for commissioning, maintaining and repairing critical power systems. Under supervision, performs a complete visual inspection of the equipment including connections (input, output, internal), subassemblies, wiring harnesses, contacts, cables and major components. Checking air filters for cleanliness. Checking module(s) completely for the following (if applicable): Rectifier and inverter snubber boards for discoloration, power capacitors for swelling or leaking oil. Recording all voltage and current meter readings on the module control cabinet or the system control cabinet. Also includes checking the inverter and rectifier snubbers for burned or broken wires. Check all nuts, bolts, screws, and connectors for tightness and heat discoloration. Check fuses on the DC capacitor deck for continuity. Performs operational test of the system including unit transfer and battery discharge. Calibrates and records all electronics to system specifications. Installs or performs Engineering Field Change Notices (FCN) as necessary. Measures and records all low-voltage power supply levels. Measures and records phase-to-phase input voltage and currents.

Senior UPS Technician

Senior Level Position responsible for commissioning, maintaining and repairing critical power systems. Performs a complete visual inspection of the equipment including connections (input, output, internal), subassemblies, wiring harnesses, contacts, cables and major components. Checking air filters for cleanliness. Checking module(s) completely for the following (if applicable): Rectifier and inverter snubber boards for discoloration, power capacitors for swelling or leaking oil. Recording all voltage and current meter readings on the module control cabinet or the system control cabinet. Also includes checking the inverter and rectifier snubbers for burned or broken wires. Check all nuts, bolts, screws, and connectors for tightness and heat discoloration. Check fuses on the DC capacitor deck for continuity. Performs operational test of the system including unit transfer and battery discharge. Calibrates and records all electronics to system specifications. Installs or performs Engineering Field Change Notices (FCN) as necessary. Measures and records all low-voltage power supply levels. Measures and records phase-to-phase input voltage and currents. May train and or supervise other UPS Technician staff members

APPENDIX C: ABOUT M.C. DEAN, INC.

M.C. Dean, Inc. is the nation's premier electrical design-build and systems integration firm for complex, mission-critical organizations.

M.C. Dean's capabilities include electrical, electronic security, telecommunications, life-safety, instrumentation and control, and command and control systems.

M.C. Dean, Inc. serves a diverse group of markets including Fortune 1000 corporations; universities; high tech and biotech firms; Federal, state, and local government clients; and other organizations with large scale, complex, and mission-critical infrastructure needs.

Established in 1949, M.C. Dean, Inc. has earned a reputation as an innovator and pioneer. Headquartered in Tysons Corner, Virginia, M.C. Dean, Inc. employs more than 5,000 professionals in offices throughout the Eastern United States, Europe and the Middle East.