

NSLS OHSAS Job Risk Assessment

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| Name(s) of Risk Team Members: A. Boerner, B. Chmiel, P. Davila, G. Ramirez, A. Santiago, C. Sorrentino | Point Value → Parameter ↓ | 1 | 2 | 3 | 4 | 5 |
|---|------------------------------|--|---------------------------|----------------------------|---------------------|-------------------------------|
| Job Title: Troubleshooting energized electrical equipment in the following range $\geq 50v$ and $\leq 240v$. Job Number or Job Identifier: PS-JRA-0003 | Frequency (B) | \leq once/year | \leq once/month | \leq once/week | \leq once/shift | $>$ once/shift |
| Job Description: Performing diagnostic voltage measurements on energized electrical equipment in the following range $\geq 50v$ and $\leq 240v$. | Severity (C) | First Aid Only | Medical Treatment | Lost Time | Partial Disability | Death or Permanent Disability |
| | Likelihood (D) | Extremely Unlikely $\ll 1x/20yrs$ | Unlikely $1x/10-20yrs$ | Possible $>1x/10-20yrs$ | Probable $1x/yr$ | Multiple $>1x/yr$ |
| Training and Procedure List (Optional): | | | | | | |
| Approved by: A. Ackerman Date: 12/28/11 Rev. #: 1 Revision Log | | | | | | |
| Stressors (if applicable, please list all): | | Reason for Revision (if applicable): Replaces LS-JRA-0003 Rev. 3 | | | Comments: | |

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| Job Step / Task | Hazard | Before Controls | | | | | Initial Controls | After Initial Controls | | | | | Control(s) Added to Reduce Risk | After Additional Controls | | | | | | |
|--|------------------|-----------------|---------------|-------------|------------|--------------|------------------|---|---------------|-------------|------------|--------------|---------------------------------|---------------------------|---------------|-------------|------------|--------------|---------------|------------------|
| | | Stressors Y/N | # of People A | Frequency B | Severity C | Likelihood D | | Risk* AxBxCxD | # of People A | Frequency B | Severity C | Likelihood D | | Risk* AxBxCxD | # of People A | Frequency B | Severity C | Likelihood D | Risk* AxBxCxD | % Risk Reduction |
| Voltage measurement on energized electrical conductors | Electrocution | | 1 | 3 | 5 | 5 | 75 | Training, proper grounding, proper equipment design & installation, use of NFPA 70E compliant PPE in accordance with SBMS, standards & procedures, proper CAT meter, electrical work permit, proper lighting, AED | 1 | 3 | 5 | 1 | 15 | | | | | | | |
| | Electrical Shock | | 1 | 3 | 3 | 5 | 45 | Training, proper grounding, proper equipment design & installation, use of NFPA 70E compliant PPE in accordance with SBMS, standards & procedures, proper CAT meter, electrical work permit, proper lighting, AED | 1 | 3 | 3 | 1 | 9 | | | | | | | |

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| Job Step / Task | Hazard | Before Controls | | | | | Initial Controls | After Initial Controls | | | | | Control(s) Added to Reduce Risk | After Additional Controls | | | | | | | |
|--|-------------------------------|--------------------------------|---------------|-------------|------------|--------------|------------------------------|---|---------------|-------------|------------|---------------------------------|---------------------------------|---------------------------|---------------|-------------|--------------------------------------|--------------|---------------|------------------|--|
| | | Stressors Y/N | # of People A | Frequency B | Severity C | Likelihood D | | Risk* AxBxCxD | # of People A | Frequency B | Severity C | Likelihood D | | Risk* AxBxCxD | # of People A | Frequency B | Severity C | Likelihood D | Risk* AxBxCxD | % Risk Reduction | |
| | Arc Flash | | 1 | 3 | 5 | 5 | 75 | Training, proper grounding, proper equipment design & installation, use of NFPA 70E compliant PPE in accordance with SBMS, standards & procedures, proper CAT meter, electrical work permit, proper lighting | 1 | 3 | 3 | 2 | 18 | | | | | | | | |
| | Reflex Injury | | 1 | 3 | 5 | 5 | 75 | Training, proper grounding, proper equipment design & installation, standards & procedures, use of NFPA 70E compliant PPE in accordance with SBMS, proper CAT meter, electrical work permit, proper lighting, Good Housekeeping, Tier I | 1 | 3 | 5 | 1 | 15 | | | | | | | | |
| Further Description of Controls Added to Reduce Risk: | | | | | | | | | | | | | | | | | | | | | |
| *Risk: | 0 to 20 Negligible | 21 to 40 Acceptable | | | | | 41 to 60 Moderate | | | | | 61 to 80 Substantial | | | | | 81 or greater Intolerable | | | | |