

SAFETY OBSERVATION REPORT

|   |  |  |  |  |                           |                |
|---|--|--|--|--|---------------------------|----------------|
| <b>Observers:</b><br>I. Ben-Zvi, S. Vigdor, T. Ludlam, L. Littenberg,<br>M. Zarcone, E. Lessard |  | <b>Date:</b><br>5/15/08  | <b>Duration:</b><br>1.5 Hr.  | <b>Siemens Transformer Construction Site and NSRL</b>                        |                           |                |
| <b>Observation Categories</b>   | <b>Observation Questions:</b>  |  |  |  |                           |                |
| POS   | In risky position relative to task?<br>Protection OK?  |  | Exposed to risks of temperature/electricity/gas/chemicals/radiation? |  |                           |                |
| ERG   | Risks from: posture, repetitive motion, load, vibration, temperature, lighting, noise, work flow?        |  |  |  |                           |                |
| PPE   | Correct PPE?<br>All parts of the body properly protected?  |  | In safe condition?   |  |                           |                |
| T&E   | Is tool, equipment or facility right for the job?<br>Used correctly?                                     |  | In safe condition?   |  |                           |                |
| PRO   | Is there a standard procedure?<br>Followed?  |  | Is procedure adequate?   | Up to date?  | Understood?               |                |
| ORD   | Is workplace orderly?<br>Is there a place for all materials and equipment?                               |  | Adequate space?<br>All in its place?                                 |  |                           |                |
| ASF   | No unsafe acts or conditions identified  |  |  |  |                           |                |
| <b>Work Area or Location</b>  | <b>Number of Contacts</b>  | <b>Description of unsafe acts</b>  | <b>Observation Category</b>  | <b>Follow-up Action</b>  | <b>Person Responsible</b> | <b>By Date</b> |
| Siemens Transformer Construction Area, Building 928   | 1 contact for discussions (Construction Foreman, Laser Construction) and 4 construction workers observed | <b>No unsafe acts observed.</b><br><br>Unclear where boundaries for wearing a hard hat are located.<br><br><b>Positive:</b> Work planning was used for job. Sub-contractor workers were all wearing proper PPE for construction work. Workers are trained and knowledgeable about hazards and controls (e.g., all removed soil had to be checked via vehicle monitor). | ASF<br><br>PPE   | At construction site work area, indicate the boundary for wearing a hard hat | R. Karol / J. Torre       | 5/16/08        |

|                    |   |  |            |   |                           |         |
|--------------------|---|--|------------|---|---------------------------|---------|
| NSRL, Building 958 | 2 contacts for discussions, 2 users working in facility | <p><b>No unsafe acts observed.</b></p> <p>Security is good but there is no policy to check all doors at facility.</p> <p><b>Positive:</b> Housekeeping is excellent. Hazard controls are state of the art. Users are trained. Liaison physicist understood activation check policies. Sweeping and re-setting for beam is done in a business like way with attention to safety. New plans are in the works to either expand building or add a portable building to alleviate overcrowding. Work planning was evident for all experimental work (e.g., use of CO<sub>2</sub> incubator inside the Target Room had been planned and properly implemented).</p> | ASF<br>PRO | Please develop a protocol to check if all doors are locked at the end of the work day, and during shutdown periods. | D. Phillips / F. Kobasiuk | 5/20/08 |
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**COMMENT:**

Peter Cirmigliaro: Please check pressure rating on Tygon tubing used to distribute CO<sub>2</sub> gas in the cell-culture lab. Also, please check if screw/band hose clamps are appropriate to connect Tygon tubes to regulators on the CO<sub>2</sub> gas cylinders.