

Example 5 Working at heights on communication towers

(Using the energy-barrier approach)

| JOB SAFETY ANALYSIS WORKSHEET | | |
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| JOB: Working at heights on communication towers | | |
| Analysed by: John Supervisor and Marie Worker | | Date: 5 May 2002 |
| Reviewed by: Kate Expert | | Date: 1 June 2002 |
| Approved by: Co-Chairs Health and Safety Committee | | Date: 5 June 2002 |
| Sequence of Tasks | Potential Hazards (Energy type & contact) | Preventive Measures (Barriers) |
| 1. Assess and prepare work site | <ul style="list-style-type: none"> a) Burns and electric shocks from induced electrical charge in equipment and materials by electromagnetic field (EMF) from the antenna. b) Fire hazard from sparks caused by EMF. c) Falling objects from a damaged tower. d) Extreme weather and wind conditions. | <ul style="list-style-type: none"> a) De-energize the tower unless tests have been made which show that no significant electric charge is induced in the equipment and materials. Use grounded equipment materials while working near energized towers. b) Do not bring flammable and combustible materials near towers. c) Locate people and materials away from areas of falling objects. d) Snow, strong winds, and rain add additional hazards. Postpone non-emergency work during such weather. |
| 2. Climb up the tower | <ul style="list-style-type: none"> a) Potentially fatal falls from great heights. b) Exposure to cold/rain. c) Being hit by the repair equipment and material hoisted by the crane. | <ul style="list-style-type: none"> a) Use adequate fall protection and work positioning system, ie, harness, belt, safety strap. b) Wear adequate clothing to protect from cold and rain. c) Stay away from materials being hoisted. Develop procedures for bad weather conditions. |
| 3. Climb down the tower | <ul style="list-style-type: none"> a) Being hit by falling objects left on the tower by mistake. | <ul style="list-style-type: none"> a) Ensure that all tools, equipment and materials are secured before coming down the tower. |