### Incident Action Plan Safety Analysis

<table>
<thead>
<tr>
<th>1. Incident Name</th>
<th>2. Date/Time Prepared</th>
<th>3. Division Group/Other Location</th>
<th>4. Work Assignments</th>
<th>5. Gain</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Work Assignments:**
- Human Health
- Security
- Environment
- Economy

**Gains:**
- Check

#### Operational Risk Management Key

<table>
<thead>
<tr>
<th>Scale</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
</tr>
</thead>
<tbody>
<tr>
<td>Severity</td>
<td>Slight</td>
<td>Minimal</td>
<td>Significant</td>
<td>Major</td>
<td>Catastrophic</td>
</tr>
<tr>
<td>Probability</td>
<td>Remote</td>
<td>Unlikely</td>
<td>50/50</td>
<td>Very Likely</td>
<td></td>
</tr>
<tr>
<td>Exposure</td>
<td>Below Avg</td>
<td>Avg</td>
<td>Above Avg</td>
<td>Great</td>
<td>N/A</td>
</tr>
</tbody>
</table>

**Risk:**
- Slight
- Possible
- Substantial
- High
- Very High

**Color:**
- Green
- Amber
- Red
- Multiple Red

**Action:**
- Possibly Acceptable
- Attention Required
- Immediate Correction
- Discount

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**ICS-215A-CG**
*(rev 6/06)*
INCIDENT ACTION PLAN SAFETY ANALYSIS (ICS-215A-CG (rev 6/06))

Instructions for filling out the form

Purpose: The purpose of this worksheet is to aid the Safety Officer in completing an operational risk assessment to prioritize hazards and develop appropriate controls.

Preparation: During the Incident Action Planning cycle where the Operations Section Chief (OSC) is preparing for the tactics meeting, the Safety Officer works alongside the OSC and completes the Incident Action Plan Safety Analysis. This sheet mirrors the ICS 215 form. Work assignments are listed along with associated hazards. A calculation is made that determines what level of risk each work assignment poses. For those assignments having significant risk, controls are developed for safeguarding responders. The net risk is evaluated against the gain. The Incident Commander should be alerted to all safety hazards that receive an amber or red GAR rating after controls have been established.

Distribution: The Operational Hazard Worksheet is attached to the Incident Site Safety Plan and is distributed according to the instruction for Site Safety Plans.

Instructions:

<table>
<thead>
<tr>
<th>Item #</th>
<th>Item Title</th>
<th>Instructions</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Incident Name</td>
<td>Print the name assigned to the incident.</td>
</tr>
<tr>
<td>2</td>
<td>Date/Time Prepared</td>
<td>Enter date (month, day, year) and time prepared.</td>
</tr>
<tr>
<td>3</td>
<td>Division/Group</td>
<td>Enter the Branch, Division or Group title in abbreviated form.</td>
</tr>
<tr>
<td>4</td>
<td>Work Assignment</td>
<td>List the work assignment for each Branch, Division or Group.</td>
</tr>
<tr>
<td>5</td>
<td>Gain</td>
<td>Check the gain that is achieved when the work assignment is accomplished.</td>
</tr>
<tr>
<td>6</td>
<td>Hazards</td>
<td>Using the IAP Safety Analysis Aid (page 2), list the type of hazards likely to be encountered for the work assignment. Place a check mark in the box below the hazard.</td>
</tr>
<tr>
<td>7</td>
<td>Controls</td>
<td>Using the IAP Safety Analysis Aid (page 2), list the type of controls likely to be used for addressing the hazards listed. Place a check mark in the box below the control.</td>
</tr>
<tr>
<td>8</td>
<td>GAR</td>
<td>Using the &quot;Key&quot;, assign a number from 1 to 5 based on the level of severity, probability and exposure. Multiply all numbers together to get a total. Enter this number into the total column. Gar means Green, Amber, Red. Using the GAR scale on the bottom of the sheet, assign a color, risk level or action phrase in this block.</td>
</tr>
<tr>
<td>9</td>
<td>Prepared by</td>
<td>Enter the name of the person who completed this worksheet.</td>
</tr>
</tbody>
</table>
HAZARDS:

<table>
<thead>
<tr>
<th>Physical</th>
<th>Chemical/Biological</th>
<th>Human</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Slipping</td>
<td>• Explosion</td>
<td>• Violence</td>
</tr>
<tr>
<td>• Tripping</td>
<td>• Flammable</td>
<td>• Poor Lifting</td>
</tr>
<tr>
<td>• Fall</td>
<td>• Air Reactive</td>
<td>• Repetition</td>
</tr>
<tr>
<td>• Overhead</td>
<td>• Water Reactive</td>
<td>• Excessive Force</td>
</tr>
<tr>
<td>• Heat Stress</td>
<td>• Chem Reactive</td>
<td>• Poor posture</td>
</tr>
<tr>
<td>• Cold Stress</td>
<td>• Alpha Rad</td>
<td>• Awkward motion</td>
</tr>
<tr>
<td>• Electrical</td>
<td>• Beta Rad</td>
<td>• Fatigue</td>
</tr>
<tr>
<td>• Blunt Objects</td>
<td>• Gamma Rad</td>
<td>• Poor hygiene</td>
</tr>
<tr>
<td>• Sharp Objects</td>
<td>• X Rad</td>
<td>• Illness</td>
</tr>
<tr>
<td>• Noise</td>
<td>• Bio-weapon</td>
<td>• Alcohol/Drugs</td>
</tr>
<tr>
<td>• Vehicle</td>
<td>• Chem-weapon</td>
<td>• Over crowding</td>
</tr>
<tr>
<td>• Fire</td>
<td>• Irritant</td>
<td>• Poor comms</td>
</tr>
<tr>
<td>• Sun/UV Glare</td>
<td>• Asphyxiant</td>
<td>• Noise interference</td>
</tr>
<tr>
<td>• Sun Burn</td>
<td>• Oxidizer</td>
<td>• Smoking</td>
</tr>
<tr>
<td>• Moving Pinch Points</td>
<td>• Carcinogen</td>
<td>• Driving</td>
</tr>
<tr>
<td>• Unguarded Machinery</td>
<td>• Corrosive</td>
<td>• Animal/Plant</td>
</tr>
<tr>
<td>• Lightning</td>
<td>• Cryogenic</td>
<td>• Bites/Stings</td>
</tr>
<tr>
<td>• Drowning</td>
<td>• Toxic</td>
<td>• Poison</td>
</tr>
<tr>
<td>• Engulfment</td>
<td>• Biomed/pathogen</td>
<td>• Thorns/burrs</td>
</tr>
<tr>
<td>• Limited Egress/Access</td>
<td>• Particulates</td>
<td>• Swarms</td>
</tr>
<tr>
<td></td>
<td>• Fumes (weld etc.)</td>
<td>• Disease</td>
</tr>
<tr>
<td></td>
<td>• O2 Deficiency</td>
<td>• Feces/Coliforms</td>
</tr>
</tbody>
</table>

TYPES OF ADMINISTRATIVE CONTROLS:

- Reduced work duration
- Worker rotation
- Training
- Safety briefs
- Maintenance
- Drinking fluids
- Good housekeeping
- Roving security
- Warning lights
- Alarms
- Pre-inspections
- Field checks
- Line of sight comms
- Comms schedule
- Load shifting
- Hazard marking
- Labeling
- Hand signals
- Fendering
- Work plans
- Handcarts/trolleys
- Fire extinguisher
- Eye Wash Station
- Hand washers

TYPES OF PERSONAL PROTECTIVE EQUIPMENT CONTROLS:

- Hard hats
- Steel-toed shoes
- Safety goggles
- Face shields
- Life jacket
- Fall arrests
- APRs
- Chemical suits
- Fire resistant suits
- Work gloves
- Sun glasses
- Sun-block
- Eye wash stations
- Night vision
- Dry/wet suits
- Hand warmers
- Knee pads
- Over garments
- Booties
- Cooling vests
- Hats for warming
- Gloves (warmth)

CUTROLS:

Types of Engineering Controls:

- Barriers
- Capping
- Terminating
- Chocks
- Flanging

- Shields
- Covering
- Shutting
- Enclosures
- Guarding

- Dams
- Fencing
- Blocking
- Diverters
- Substitution

Page 2 of 2