Agility (Abu Dhabi) PJSC
Heat Stress Case Study

Occupational Health and Safety Campaign on Heat Stress Prevention

(Ref: OSHAD Safety In Heat Campaign, OSHAD Cop – 11.0 "Safety in the Heat"
& OSHAD Technical Guideline – “Safety in the Heat”)

June 15, 2017 to September – 15, 2017
Program Objective:

1. Heat Stress Awareness Trainings through campaigns, videos, posters and daily tool box talks
2. Interactive sessions with workers during trainings, campaigns and observation tours
3. Site walkthroughs and conducting briefing sessions
4. Procurement and distribution of Oral Re-hydration Salts and vacuum water bottle
5. Monitoring of day temperature and heat stress through Implementation of HAAD approved heat stress ‘Thermal Work Limit’ (TWL) monitoring device

Site / Locations Covered

1. Agility Head Office - Mussafah
2. Agility Warehouse - Mussafah
3. Mussafah Port Warehouse (Operated by Agility)
4. Agility Kizad Facility - KIZAD
5. Agility Al Dahra Sites - Al Nahel and Sweihan
6. Agility Ruwais Distribution Center - Ruwais
7. Agility Labor Camp - Ruwais

MEMO

Document No: AGL/GIL/HSE/001/2017

Date: 06-06-2017

MID DAY BREAK RULE

Mid-day break rule will be starting from June 15th 2017 to September 15th 2017.

No workers shall work under direct sun light and in open area between 12:30 PM to 03:00 PM to reduce heat exhaustion, heat stress, heatstroke and heat related illness.

All are requested to adhere to the legal requirement. Kindly note that violation of this rule can invite a fine of up to 5000 Dirhams per worker to 50000 Dirhams by the Ministry of Labor.

Thank you for observing above rule.

ARABIC

دبي أكبر حلال فرت الأغواء

بدأ حملة حلال فرت الأغواء بشراف من 15 يونيو إلى 15 سبتمبر 2017.

لا يجوز للعمال العمل تحت الشمس من 12:30 ظهراً إلى 03:00 نهاراً للحد من الإكزيما الحراري والإدمان الحراري. حملة حلال فرت الأغواء متصلة بال:return: لتشجيع الإدارة على تحقيق هذا الفتر.

الرجاء الالتزام برفع القانون.

Thank you for your cooperation.

URDU

دوام کم کیم کوئ رفوت رہے گیا ہے۔

کم کم فروری 2017 میں 15 جنوری 2017 تک عمل میں رہنے گا۔

ہم کم کم کو لگن گا 300 سال کم کم کو کل کے پہلے یہ رکھوں کر کے گا۔

کم کم کو کم کم کو گرما ہوگیا گا۔

مفتی دعا کے بعد ہو گی۔

مفتی دعا کے بعد ہو گی۔

مفتی دعا کے بعد ہو گی۔

مفتی دعا کے بعد ہو گی۔

Thank you for your cooperation.

HINDI

दीपावली विज्ञापन निर्देशन

दीपावली विज्ञापन निर्देशन 15 जून 2017 से तक जून 2017 तक लागू हो जाएगा।

शेयर के बाद होंगे वातावरण, तापमान, अंदाजे और अन्य ताप के कारण के विवरण की रोकने के लिए कोई कर्मचारी दुर्गम 12:30 P.M. से तक कारीगर का जुगाड़ तक कार का जुगाड़ कर ना करें।

यह तोड़ने से यह नुकसान होगा कि यह निर्देशन का बाल होगा।

अपने इस निर्देशन का उपयोग करने में कर्मचारी के चार 5000 हज़ार तक ले सकते 50000 के जुगाड़ निर्देशित के दौरान की जाएगा।

کर्मचारी दुर्गम विज्ञापन निर्देशन का वाचन कीजिएं।

Thank you for your cooperation.

Issued by: QHSE Department
Date: 06th June 2017
Best practice – Urine chart

We displayed Urine Chart on all restrooms to create awareness on Heat Stress and the importance for taking sufficient water during summer time.

**AM I HYDRATED?**

**URINE COLOUR CHART**

<table>
<thead>
<tr>
<th></th>
<th></th>
<th>Good</th>
<th>Good</th>
<th>Fair</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>2</td>
<td>3</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4</td>
<td></td>
<td>5</td>
<td>6</td>
<td>7</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dehydrated</td>
<td>Dehydrated</td>
<td>Very dehydrated</td>
<td>Severe dehydration</td>
<td></td>
</tr>
</tbody>
</table>

Any drinks that contain high levels of caffeine, salt or alcohol will increase your rate of dehydration. So, on days of high temperatures or heavy workloads avoid drinking Alcohol, Pepsi, Coke, Coffee, and high-energy drinks such as Red Bull.

**REMEMBER IF YOU FEEL THIRSTY OR YOUR URINE IS IN THE COLOUR RANGE FROM 4 TO 7 YOU ARE DEHYDRATED - DRINK MORE WATER**

INITIATIVES TAKEN

MATERIALS PROVIDED TO THE EMPLOYEES EXPOSED TO HEAT:

- ORS dehydration sachet on all locations of Agility including client premises
- Vacuum Flask (To mix ORS dehydration salt in case of any heat related disorders)

ENGINEERING CONTROLS

Air Coolers

Portable Water Coolers

Restroom with Air Condition

DAILY TWL MONITORING

Control Interventions, Rest-Work and Rehydration Schedules

<table>
<thead>
<tr>
<th>Working Zones</th>
<th>Interventions</th>
<th>Rehydration Schedule (per hr)</th>
<th>Work-rest Schedule (minutes)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Low Risk Unrestricted Zone (TWL &gt; 220C)</td>
<td>No limits on self-paced work* for educated, hydrated workers.</td>
<td>Light Work 600 ml = 1 Ltr/hr</td>
<td>Safe for all continuous self-paced work*</td>
</tr>
</tbody>
</table>
| Medium Risk Cautionary Zone (TWL 115 - 140) | Cautionary zone indicates situations in which environmental conditions require additional precautions.  
Practicable Engineering control measures to reduce heat stress should be implemented e.g. provide shade, improve ventilation etc.  
Working alone to be avoided  
No unacclimatized person to work*  
Ensure adequate fluid intakes appropriate for type of work | Light Work 1.2 Litres/hr | Safe for continuous self-paced light work* |
| High Risk Zone (TWL < 115) | Strict Work/Rest cycling required  
No person to work alone  
No unacclimatized person to work*  
High Risk induction required emphasising hydration and identifying signs of heat strain  
Provide personal water bottle (2 Ltr capacity) on-site at all times | Heavy Work >1.2 Litres/hr | Continuous paced work 45 work - 15 rest |

TWL (Thermal Work Limit) monitoring were taken on a daily basis based on the HAAD regulations and operations were notified for taking appropriate controls

Session With Head Office Field Staff

OSHAD Safety In Heat Campaign
Session Mussafah Warehouse Field Staff

OSHAD Safety In Heat Campaign
Session With Mussafah Port Field Staff
Session With Nahel Store Field Staff – Al-dahraa

OSHAD Safety In Heat Campaign
Session With RDC (Ruwais) Staff

OSHAD Safety In Heat Campaign
Session With BPS (Ruwais) Staff

OSHAD Safety In Heat Campaign
# Results of 2017 Heat Stress Campaign

<table>
<thead>
<tr>
<th>Locations Covered</th>
<th>Total Man Power (Based on Location)</th>
<th>Incident Rate (%) (Based on Location)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Agility Abu Dhabi Operations</td>
<td>161</td>
<td>0</td>
</tr>
<tr>
<td>Agility Warehouse – Mussafah</td>
<td>59</td>
<td>0</td>
</tr>
<tr>
<td>Mussafah Port Warehouse (Operated by Agility)</td>
<td>10</td>
<td>0</td>
</tr>
<tr>
<td>Agility Kizad Facility - KIZAD</td>
<td>339</td>
<td>0</td>
</tr>
<tr>
<td>Agility Al Dahra Sites - Al Nahel and Sweihan</td>
<td>61</td>
<td>0</td>
</tr>
<tr>
<td>Agility Ruwais Distribution Center - Ruwais</td>
<td>64</td>
<td>0</td>
</tr>
<tr>
<td>Agility Labor Camp - Ruwais</td>
<td>215</td>
<td>0</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td>909</td>
<td>0</td>
</tr>
</tbody>
</table>

“ZERO INCIDENTS”
References/Guidelines

- OSHAD Safety In Heat Campaign
- OSHAD-SF Code of Practice 11.0 “Safety In The Heat” – Version 3.0
- OSHAD-SF – Technical Guideline – Safety In The Heat
Thank You