UPDATE OF STP ACTIVITIES IN NIGERIA.

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OUTLINE

• INTRODUCTION:
• STP Host-National Silicate

• STP TRAININGS
  • LESSONS LEARNT
  • PLAN FOR NIGERIA
  • UPDATE REPORT (Implementation/achievements)

• CHALLENGES AND FUTURE PLAN
• CONCLUSION
• APPRECIATION
Introduction

- 923,768 km² land area and 13,000 sq km water area.
- Divided into six geopolitical zones.

- Has tropical climate type because of its location just north of the equator
• Population estimates over 182,201,962 with a total of 372 tribes/Ethnic Groups.

• The three major languages are Hausa, Igbo and Yoruba with English being the official language.
Industries in Nigeria

- **The main industries included:** Chemical, Pharmaceutical, Textile, mining, Oil and Gas, Food and Beverage, Wood and Wood Processing, paint, Glass, Plastic, Rubber and Tyre, Cement, iron and steel processing, agro-processing and other manufacturing industries.

- **Manufactured Chemicals:** Sulphuric acid, Potassium Aluminum Sulphate, Linear Alkyl benzene solvents, carbon black, propylene, fertilisers and pesticides.
Industries in Nigeria cont’d

- Nigeria **imports** various types of chemicals ranging from: Industrial, Laboratory, reagents, restricted, controlled, precursors and Agro chemicals

- All chemical importing and marketing companies in Nigeria requires chemical import permit and listing certificates
• National Agency for Food and Drug Administration and control (NAFDAC) was established by Decree 15 of 1993, as amended by Decree 19 of 1999, now Act Cap N1 LFN2004.

• NAFDAC is Nigerian Regulatory Authority in charge of food, drugs, cosmetics, medical devices, packaged water and chemicals (regulated products).

• Mandated to regulate and control the importation, manufacture, exportation, distribution, sale and use of all regulated products

• Presence in all 36 States and the Federal Capital Territory,

• Structured in to Thirteen Directorates with Seven (7) Laboratories
National Silicates (NS) is a subsidiary of PQ Corporation, a 100% Canadian company.

NS is the world's largest producer of sodium and potassium silicates and its derivatives.

NS’s Unique Chemistry and Innovative Solutions have high concerns for processes and systems that are:

- Non-polluting
- Conserving of energy & natural resources
- Economically efficient
- Safe to workers, communities and consumers
STP AT NATIONAL SILICATE

- Committed to Responsible Care®
- Committed to HSE
- Products are environmentally friendly
Other companies visited:

- Fiat Chrysler Automobiles, Toronto
- H.L Blachford, Toronto
- Canada Colour and Chemicals (CCC) – Brampton,
- Campbell Company of Canada-Birmingham, Toronto
- Clean farms, Ontario
- Stericycle ULC, Brampton
- Emerald Waste Energy
- Ministry of Environment and Climate Change
Lessons Learnt:

• It was observed that Safety is given preference and reference in all company meetings and activities.
• Risk analysis
• Incident Reporting
• Emergency Response Plans
• Quarantine areas for holding OOS and SOPs for obsolete/expired chemicals.
• Internal verification and evaluation procedures to meet up with the international requirements of the different ISO standards.
• Storage according to SDS.
• Oxidizers and Combustibles stored in separate storage areas protected with fire proof containments
• Pollution Prevention Principles with environmental sustainability
• Robust fire safety plan, and adequate firefighting equipment
• Signage and suitable/adequate Personnel Protective Equipment (PPE)
• A high level of GHP with focus on HACCP
• Capacity building and medical safety.
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<th>Plan for Nigeria</th>
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<tr>
<td>1</td>
<td>STP summary report and recommendation</td>
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<tr>
<td>2</td>
<td>Sharing experiences and training of colleagues</td>
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<td>3</td>
<td>Recommendation of training needs for stakeholders.</td>
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<td>4</td>
<td>Create awareness (Radio and Television). against re-use of empty pesticide</td>
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<td>containers and chemicals management.</td>
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<td>5</td>
<td>Develop an incident reporting and ERP documents</td>
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<td>6</td>
<td>Create public awareness on chemicals management.</td>
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<td>7</td>
<td>Awareness creation of chemical safety protocols to the public through media</td>
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<td>and safety hand bills/brochures.</td>
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<td>8</td>
<td>Industrial awareness on ERP, spills, fire management.</td>
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<td>9</td>
<td>Documented evidences of obsolete and expired chemicals.</td>
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<td>10</td>
<td>Promote the use of proper signages</td>
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<td>11</td>
<td>Sharing of safety experiences by chemical industries.</td>
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Training colleagues (Step down TRAINING)
TRAINING AT NATIONAL CENTER FOR DISEASE CONTROL (NCDC) WORKSHOP IN ABUJA

- Evaluate current national health status and focusing at chemical events as one of the 19 identified technical areas that affects health system.
PUBLIC MEDIA (NATIONAL TELEVISION AND RADIO)

NIGERIAN TELEVISION AUTHORITY

Africa’s Largest TV Network

CHANNELS

UNSAFE USE OF AGROCHEMICALS
Chemical Threat Readiness workshop - Lagos
Sharing Best Practices on Chemicals Safety Management, in CAMEROON by OPCW
SUMMARY OF WORK DONE IN NIGERIA

- Development of Chemical incident reporting checklist/form
- SOP for investigation and responding to chemical incidents and accidents with ERP
- Featuring in National television stations and radio programs
- Training industries on SHOC, GHS, TDG
- Public awareness creation, sensitization, advocacy, workshops, meetings.
Chemical Warehouse-Trending

But the MOST Desired ones are...
Summary cont’d….

Self
- Desk Officer: Minamata Convention.
- Sec.NIC on ERP
- Chairperson: Chemical Event on improved National Health

Industries
- Genuine Applications/REG. PPESs and Medicals
- Documentation/reporting culture
- Staff welfare/medicals
- Knowledge of SDS applications
- Risk Analysis
- Hierarchy of controls
Achieved Plan for Nigeria

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<tr>
<th>Activity</th>
<th>Series 1</th>
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<tr>
<td>Training Chem Ind</td>
<td>90</td>
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<tr>
<td>Training Colg/Chem soc.</td>
<td>120</td>
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<tr>
<td>Media Pub. Awareness</td>
<td>150</td>
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<tr>
<td>Indst. Safety/Audit</td>
<td>90</td>
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<td>SHOC/inspectio ns</td>
<td>70</td>
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<tr>
<td>Safety of Agro.chm</td>
<td>70</td>
</tr>
<tr>
<td>signages/docum entation</td>
<td>50</td>
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<tr>
<td>Develop URP CIR, FSM</td>
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<tr>
<td>Documentation of obsolete CHM</td>
<td>50</td>
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<tr>
<td>Sharing indust.safety exp</td>
<td>10</td>
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<tr>
<td>Report Writing</td>
<td>100</td>
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Challenges and Future PLAN

• PPEs and on the spot detecting devices.
• Lack of Funding
• Mobility to remote areas

Future Plan:
• CIMS
• Awareness and campaigns to secondary schools before departure to Spain
APPRECIATION
FUN TIMES AT NATIONAL SILICATES
CONCLUSION

• It is a known fact that CHEMICALS could be used for both constructive and destructive purposes and Regulators have the special responsibilities of promoting its ECONOMIC and SAFE use.

• Need to collaborate with other regulatory agencies around the world

_It is not out of place to be passionate about safety, protecting the environment and fighting climate change, hence tools for tackling them should be effective on a global scale:_

_Special thanks therefore to IUPAC and USDOS for this global safety initiative_
Recognition of Completion

Let it known that this certificate has been presented on 24th August 2015, to

Christine Ashaolu

for completion of the IUPAC industrial safety training program for Chemistry professionals
at National Silicates, Toronto, Ontario, Canada

Lynda Ryder
Program Sponsor

Dr Bernard West
Coordinator IUPAC STP

Jeanne Hoole
EH&S Training Coordinator
Thank you

Any questions?

Muito obrigado
Knowledge implemented back home