

Green Cleaning Products and Practices

Presented by
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Support
North East Independent School District
San Antonio, Texas

North East Independent School District

- Located in San Antonio, Texas
- Dr. Richard Middleton, Superintendent
- Dr. Brian Gottardy, Associate Superintendent for Operations
- Mr. Ron Clary, Executive Director, Facility Maintenance & Facility Support

NEISD

- More Than 63,000 Students
- 83 Site Facilities
- Over 9000 Employees
- 10,000,000+ Square Feet
- Facility Support 500+ Employees

Brief Biography

- Director for Facility Support August 2007
- 20+ Years Facility Construction & Maintenance
- Bachelor of Business Administration, The University of Texas at San Antonio
- United States Navy Veteran

The Way We Were

- Indirectly (Site Based) Managed
- Training At Campus (Head Custodian) Discretion
- Antiquated Equipment
- Introduction Of Proportioning System
- Broad Based Policies & Procedures

The Need For Change

- Workforce (Manpower) Challenges
 - We All Face The Same Challenges
- Product Change
 - Moving In The Right Direction While Saving 25 %
- Equipment Upgrades
- Departmental Restructuring
- Training Academy
- Executive Staff & Stake Holder Buy In
- Expectation To Succeed

Product Change

- Cost Savings
- Recyclable Packaging
- Environmentally Friendly
- User Friendly
- Responsibility To Provide The Best Possible Product Without Sacrificing Effectiveness

The Hazards Of Getting The Green Light

- Expect Resistance
- Providing Service To Those That Don't Know They Need It
- We Got What We Asked For... So Now What?
- We Didn't Do It That Way Last Year And Some Of My Other Favorite Responses

The Program

- Products
 - Everything Down To The Rags We Use Is Important
 - I Never Thought I Could Learn So Much About Mop Heads
 - With Chemicals More Is Not Always Better
- Equipment
- Training (The Honors Program)
- Systems
- Policies & Procedures
- Building Relationships
- Tums & Tylenol

Products

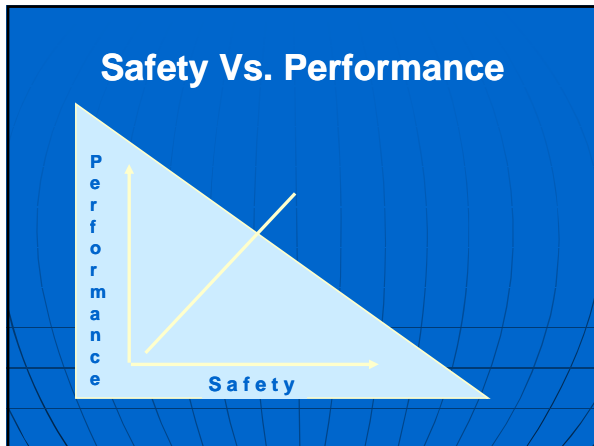
- The Importance Of Choosing The Right Company
- Know What You Want Ahead Of Time
 - Test
 - Decide
 - Spec
 - Bid
- Build The Relationship
 - Buckeye International (Joe Koch) and NEISD

What is Green Cleaning

- Products and Services that reduce the health and environmental impacts compared to similar products and services used for the same purpose
 - Presidential Executive Order 13101
- "Cleaning to Protect Health without Harming the Environment"
 - The Ashkin Group

Green Cleaning Implementation

- Develop procedures
 - Use Chemical Dilution System
 - Micro Fiber
 - Use of vacuums (Hepa filtration)
 - Mat Systems
 - Recycle Program
- Training plan for custodians
 - Honors
 - Before..During..After
 - Document the Training



- ## Along Came Swine Flu
- Effective Hand Care Programs
 - How To Get Hands Washed....Seriously
 - Attendance Matters

- ## Green Cleaning Products
- No APEOs (alkylphenoxyethoxyethanol)
 - Surfactants
 - No EDTAs (Ethylenediaminetetraacetic Acid Sodium Salts)
 - Chelate or Water Softener
 - No Phosphates
 - Includes all Potassium Salts
 - No “Butyl” : 2-Butoxy-Ethanol
 - No, or Low VOC (Volatile Organic Compounds)
 - Low Eye and Skin Irritation
 - No Corrosion to Eyes and Skin
 - Biodegradable/Recyclable/Returnable Packaging

- ## Green Cleaning Products Cont.
- Non Combustible
 - No Flashpoints below 150 degrees F
 - No Toxins
 - Undiluted Product shall not be toxic to humans
 - No Reproductive Toxins
 - No Animal Testing
 - Aquatic Toxicity

“BUTYL” 2-Butoxyethanol

Multiple Names
CAS 111-76-2
Animal Carcinogen
Chronic Health Hazard
No Buckeye Products Contain Butyl

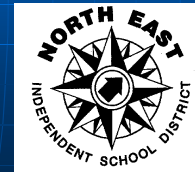
- ## Green Cleaning Products
- Cleaners
 - Neutral Floor Cleaner...[Crossbow](#)
 - All purpose... [Marauder](#)
 - Glass Cleaner...[Star Spray](#)
 - Degreaser... [Marauder](#)
 - Non Acid Bathroom Cleaner... [Marauder](#)
 - Disinfectant... [Lemon Quat](#)
 - Floor finish
 - [Castleguard/Citation](#)
 - Floor Strippers
 - [Rip Saw](#)
 - Carpet
 - [Marauder/Jet-Stream](#)

Proper Labeling

- Silk-Screened Labeling
- Proper Directions
- OSHA
 - Right To Know Information
- English And Spanish
- Emergency 1-800 #



- BUCKEYE Honors Is A School Custodial Program Which Incorporates Buckeye Products With Recommended Cleaning Procedures And Frequencies To Produce A Clean, Healthy School.



Proportioning Systems

- Money Savings
- Labor Savings
- Usually Proprietary
- Eliminates Excessive Packaging
- Less Direct Contact
- Reduce Waste

Equipment

- Keep Up With Technology Without Breaking The Bank
- All Brands Are Not Created Equal
- Automatic Scrubbers, Floor Burnishing, Vacuums, ETC...
- Preventive Maintenance
- Find A Company That Works With You

Equipment

- Boost Technology
 - 70% less Water/Chemicals
 - 25% less Battery Use
 - 40% Increase In Pad Life
- Carpet Extractors
 - Deep Extraction vs. Bonnet Cleaning
- Vacuums
 - Dual Motor Hepa-Grade Filtration



Hard Floor Care

- Saving Money Thru Superior Products
- Floors Really Don't Have To Be Stripped Every Year
- Improve Indoor Air Quality
- Re-Direct Labor Efforts
- What If You Could Skip A Year
 - Or More

Superior Floor Finishes

- **Non Yellowing –**
 - Prevents Floors From Looking Yellow, Brown or Dingy Over The Course Of The School Year
- **Non Powdering – Metal Interlocking**
 - Keeps The Finish On The Floor
 - Reduces “Walking Off” Affect – Improves UL Slip Resistance
 - Do Not Powder Off The Floor When Burnished With Means There Will Be More Finish On The Floor Longer, And Most Importantly, Greatly Improved Air Quality.

Training

- Most Important
- The Safest Products Aren't Safe When Used Incorrectly
- The Best Products Won't Work When Used Incorrectly



Training Program

- Everybody Can Clean... Except When It Counts
- Three Days And A Cloud Of Dust
- Train The Trainer...Please
- How To Implement On Your Schedule
- Systematic Approach To Everything
- Abandoned Building To Training Academy
- Our Success Story

Relationships

- Why I'm Lucky
- It Takes A Concentrated Effort
 - Purchasing & Finance
 - Vendors
 - Stake Holders
 - Human Resources
 - Know Your Employees
 - Morale And Motivation

If I Could Stomp My Feet And Clap My Hands

- When You Write The Book
 - Policies & Procedures That Work
- The Road To Success
 - How To Not Get Lost When Everybody Is Telling You Where To Go
- When “Thank You” Says It All





Questions

- Thank You For Your Attention