

CHEMICAL UNLOADING & HANDLING OVER THE YEARS

Summary of Past Presentations

Report to Bleaching Committee

Fall 2016 Updates

Jim Collins – October 25, 2016

Chemical Unloading & Handling

Summary of Past Presentations

✓ **Chemical Handling Safety**

- Proposed 1989
- Project still on-going
- Presentation on different bleaching chemicals at each meeting

Chemical Unloading & Handling

Summary of Past Presentations

✓ Chemical Handling Safety Presentations

- Fall 1996 – Sodium Hydroxide
- Spring 1997 – Sulphuric Acid
- Spring 1997 – Oxygen & Ozone
- Fall 1997 - No presentations
- Spring 1998 - Sulphur Dioxide
- Fall 1998 - Chlorine Dioxide
- Spring 1999 - Sodium Chlorate
- Fall 1999 - Oxygen
- Spring 2000 - No Presentation – 2000 IPBC

Chemical Unloading & Handling Summary of Past Presentations

✓ Chemical Handling Safety Presentations

- Fall 2000 - Hydrogen Peroxide
- Spring 2001 - Methanol
- Fall 2001 - Sodium Chlorate
- Spring 2002 - Sulphur Dioxide
- Fall 2002 - Chlorine Dioxide
- Spring 2003 - Best Practices for Chemical Unloading
- Fall 2003 - Oxygen / Ozone
- Spring 2004 - White Liquor (Hydrosulphite)
- Fall 2004 - Non-Bleaching Chemical (Defoamers)

Chemical Unloading & Handling Summary of Past Presentations

✓ Chemical Handling Safety Presentations

- Spring 2005 - Sodium Hydroxide
- Fall 2005 – Chlorine Dioxide
- Spring 2006 – Sulphur Dioxide
- Fall 2006 – Sulphuric Acid
- Spring 2007 – Hydrogen Peroxide
- Fall 2007 – Occupational Hygiene
- Spring 2008 – No Presentation – 2008 IPBC
- Fall 2008 – Sodium Hydroxide
- Spring 2009 – Carbon Monoxide

Chemical Unloading & Handling Summary of Past Presentations

✓ Chemical Handling Safety Presentations

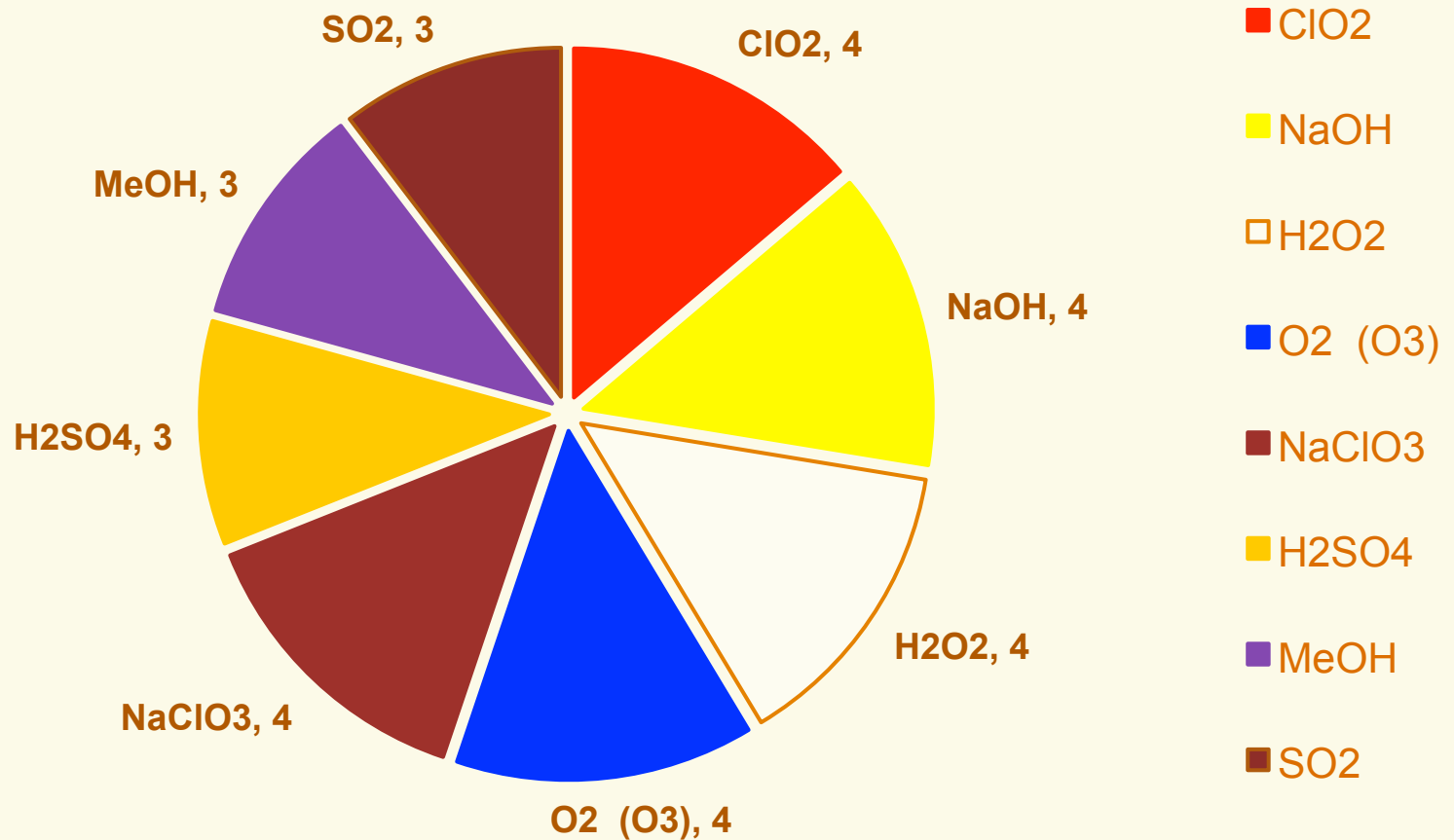
- Fall 2009 – Oxygen Handling
- Spring 2010 - Methanol
- Fall 2010 – Chlorine Dioxide Storage
- Spring 2011 – Sodium Chlorate Railcars
- Fall 2011 – Chlorine Dioxide
- Spring 2012 – Sulphuric Acid
- Fall 2012 – Hydrogen Peroxide
- Spring 2013 – Sodium Chlorate
- Fall 2013 – Sodium Hydroxide

Chemical Unloading & Handling Summary of Past Presentations

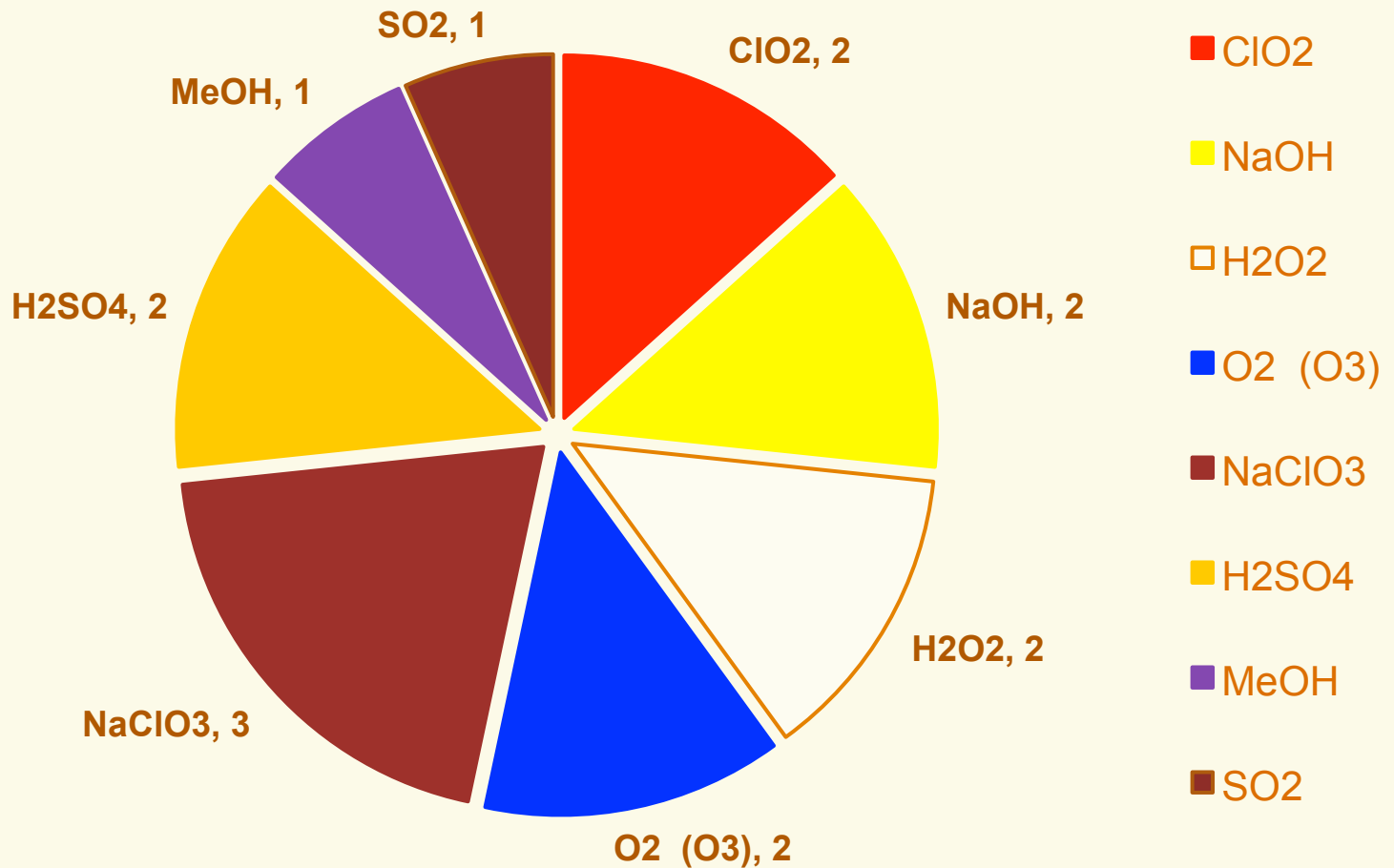
✓ Chemical Handling Safety Presentations

- Spring 2014 – Oxygen
- Fall 2014 – Defoamers & Pitch Dispersants
- Spring 2015 – Respirators
- Fall 2015 – Methanol
- Spring 2016 – Hydrogen Peroxide
- Fall 2016 – Sodium Chlorate
- Spring 2017 – ??
- Fall 2017 – ??

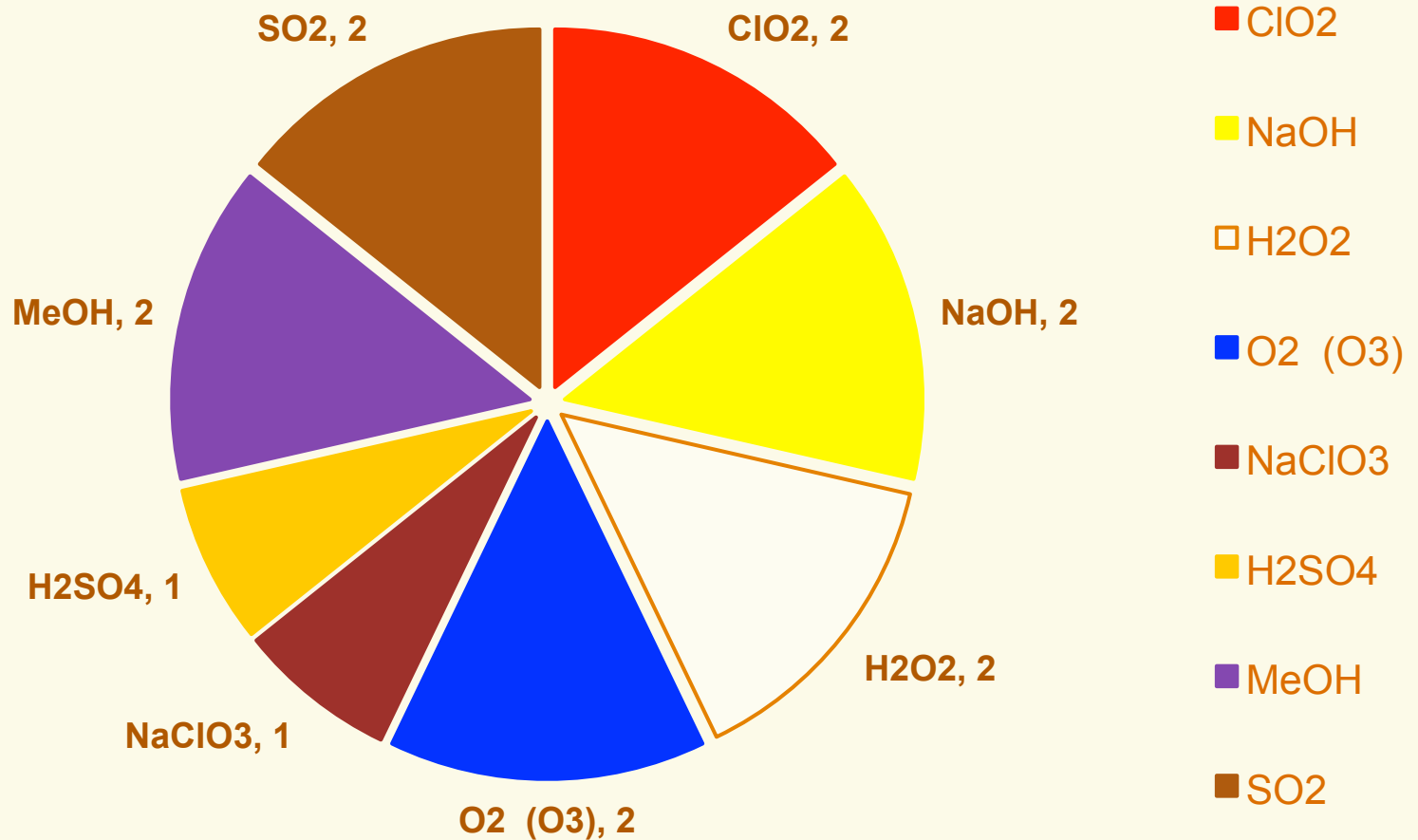
Major Bleach Process Chemicals Presentations



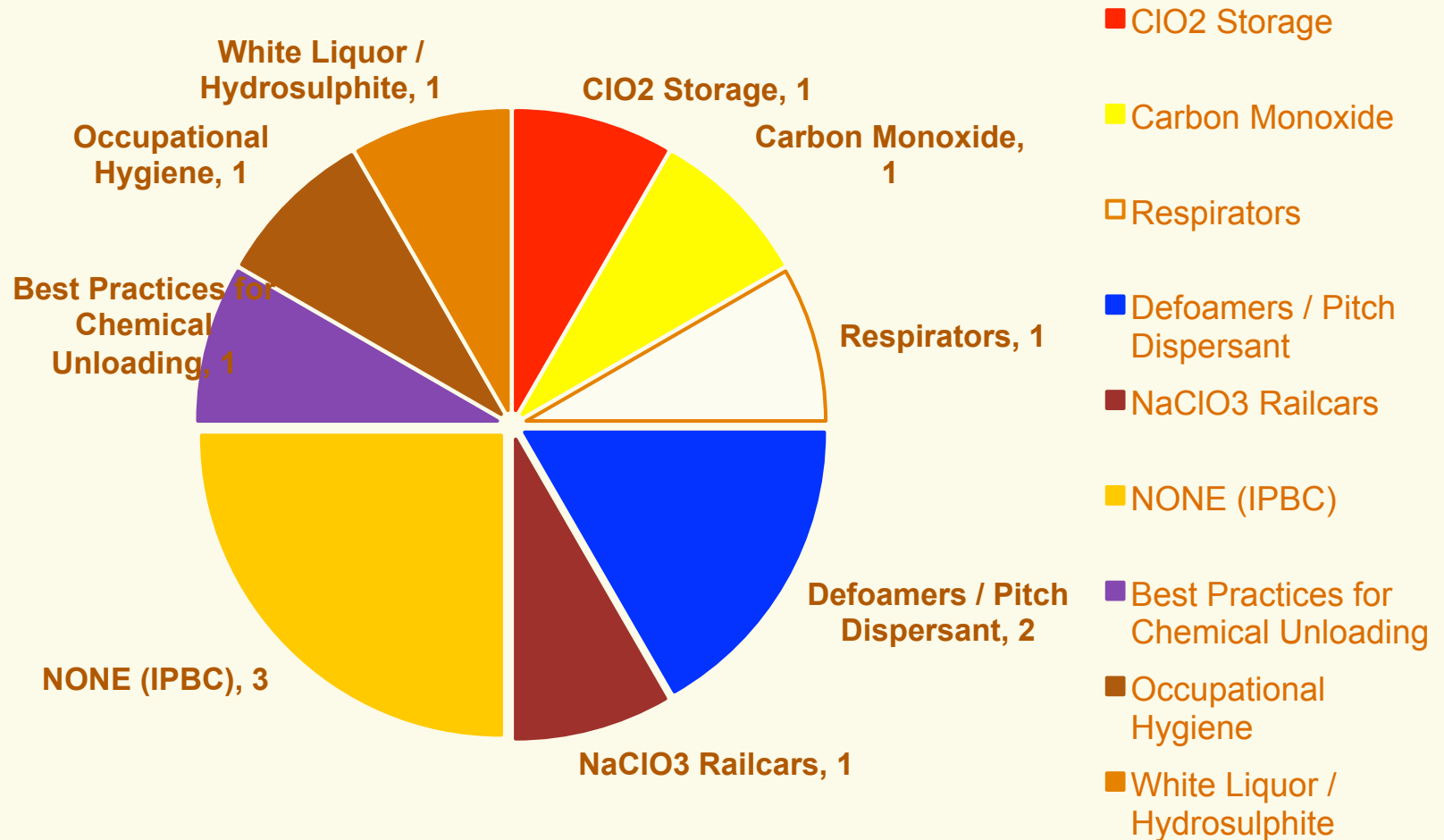
Major Bleach Process Chemicals – WEST



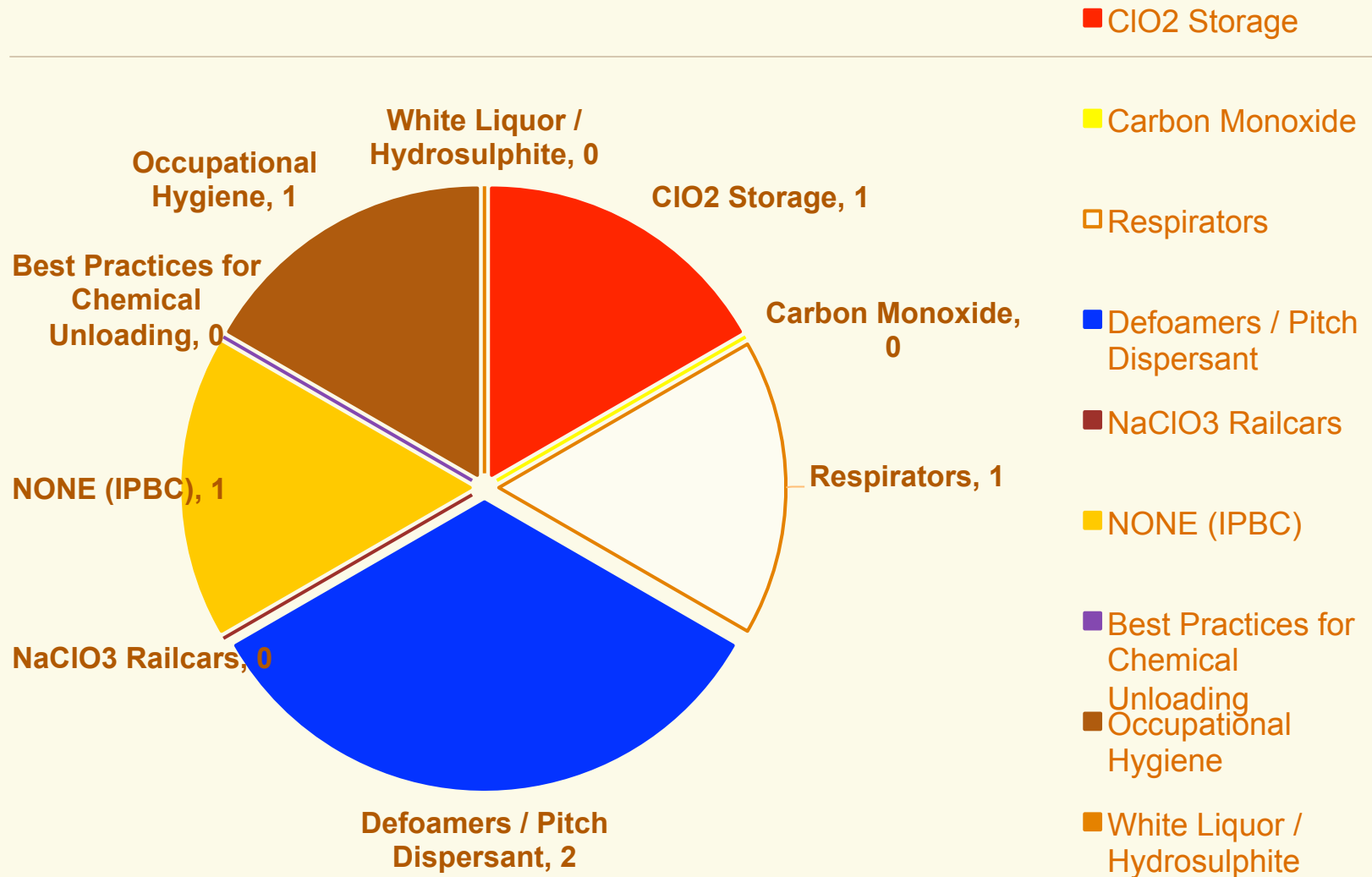
Major Bleach Process Chemicals – EAST



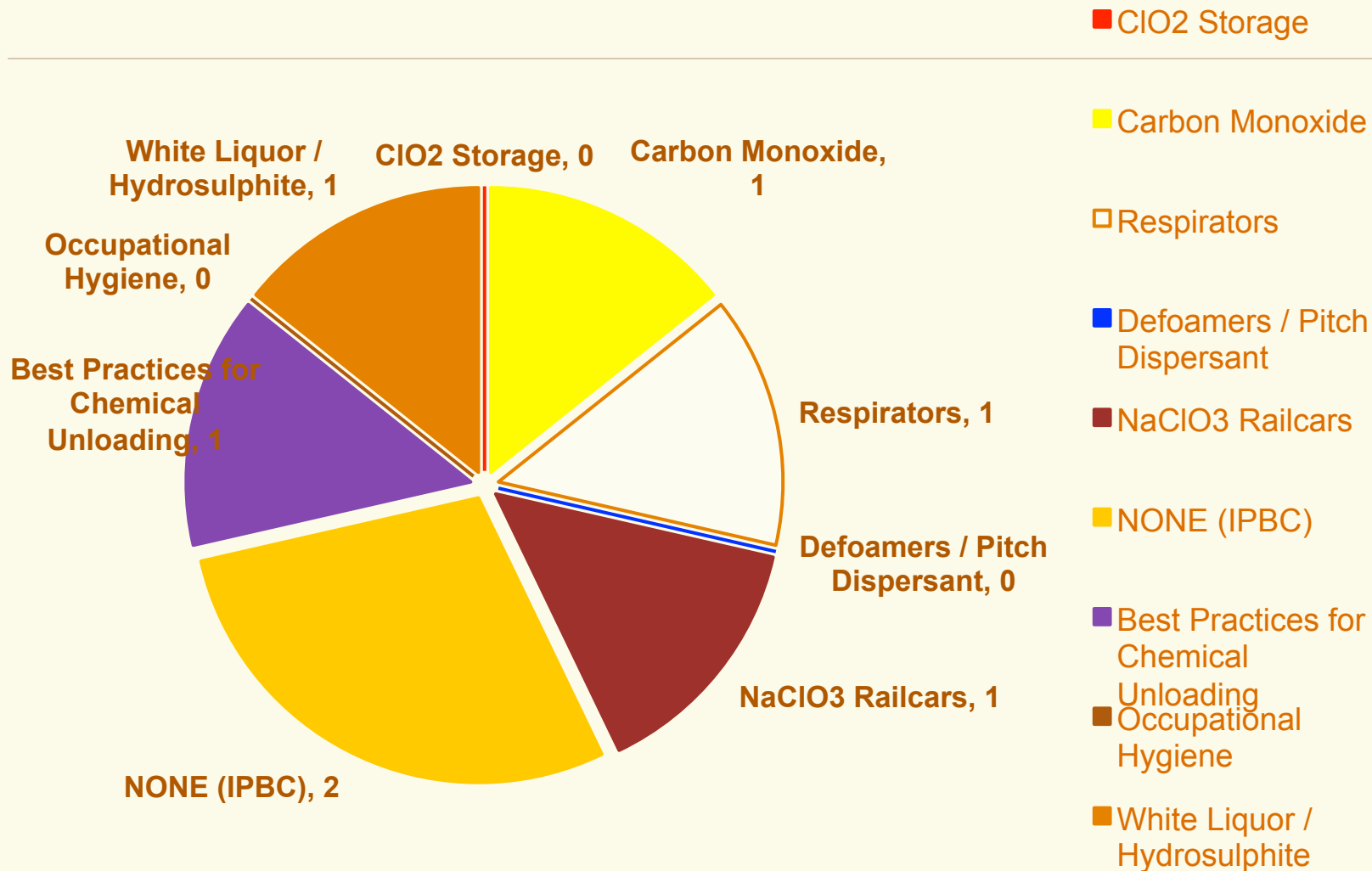
Other Presentations – SAFETY



Other – Safety – WEST



Other – Safety – WEST



Major Bleach Process Chemicals Presentations

<i>Process Chemicals</i>	Meeting in East	Meeting in West	Times in East	Times in West	Total Times Presented	Last presented in East	Last presented in West
ClO ₂	F98	F02, F05, F11	2	2	4	F98	F11
NaOH	F96, S05	F08, F13	2	2	4	S05	F13
H ₂ O ₂	S07, S16	F00, F12	2	2	4	S16	F12
O ₂ (O ₃)	F99, S14	F03, F09	2	2	4	S14	F09
NaClO ₃	S13	S99, F01, F16	1	3	4	S13	F16
H ₂ SO ₄	S12	S97, F06	1	2	3	S12	F06
MeOH	S01, S10	F15	2	1	3	S10	F15
SO ₂	S02, S06	S98	2	1	3	S06	S98

Other Presentations – SAFETY

Chemical OTHER:	Meeting in East	Meeting in West	Times in East	Times in West	Total Times Presented	Last presented in East	Last presented in West
ClO₂ Storage		F10	0	1	1		
Carbon Monoxide	S09		1	0	1		
Respirators	S15		1	0	1		
Defoamers / Pitch Disp.		F14, F04 (Def)	0	2	2		F14
NaClO₃ Railcars	S11		1	0	1		
NONE - IPBC / Other	S08, S00 (IPBC)	F97 (Mtg)	2	1	3		
Best Practices Chem. Unloading	S03		1	0	1		
Occupational Hygiene		F07	0	1	1		
White Liq / Hydrosulphite	S04		1	0	1		

Chemical Unloading & Handling

Summary of Past Presentations

✓ Chemical Handling Safety Presentations - Future?

- East – Spring 2017 ?
 - ClO_2
 - NaOH
- West – Fall 2017 ?
 - H_2SO_4
 - O_2 / O_3

Other Suggestions

