

# **UNIVERSITY OF WYOMING**

**CUSTODIAL MANAGEMENT ASSESSMENT REPORT** 

#### FOR THE BOARD OF TRUSTEES

By

#### HUNTER CONSULTING & TRAINING

NOVEMBER 15, 2017



Confidential for The University of Wyoming for Discussion Purposes Only

#### **DISCUSSION TOPICS**

BACKGROUND

**Assessment Technical Foundation** 

**DEPARTMENTAL STRENGTHS** 

**CURRENT CLEANING PERFORMANCE** 

**CUSTOMER AND STAFF PERCEPTIONS** 

**COST AND STAFFING ANALYSIS** 

**EQUIPMENT AND CONSUMABLES ANALYSIS** 

COMPARATIVE ANALYSIS - FY 14-15 APPA FPI

**FINDINGS AND OPPORTUNITIES** 



Confidential for The University of Wyoming for Discussion Purposes Only



#### BACKGROUND





# BACKGROUND CUSTODIAL SERVICES MANAGEMENT ASSESSMENT

## • Custodial Services Scope and Approach:

- University of Wyoming Operations Department (UW Operations) provides custodial services on a scheduled basis to 72 administrative and academic buildings totaling approximately 4.1 million Gross Square Feet (GSF) and approximately 2.9 million Cleanable Square Feet (CSF).
- The services are delivered by the Custodial Services (CS) work unit.
- Custodial services for housing and athletics are provided by others work units.

# • Hunter Consulting & Training conducted a custodial services management assessment in April and May 2017 including:

- Staffing and budget requirements based on APPA<sup>1</sup> Guidelines;
- Organizational structure and service delivery approach;
- Current level of cleanliness;
- Performance indicators comparative analysis based on custodial performance indicators from 242 other institutions;
- Customer satisfaction and approval rating;
- Recommendations for improving service to an APPA service level reasonably acceptable and affordable to The University of Wyoming.

<sup>1</sup>APPA, the professional association for educational facilities officers (<u>www.appa.org</u>) published guidelines that define cleanliness level 1 through 5 with 1 being the best and 5 being the worst.



#### BACKGROUND THE CRITICAL BAKER'S DOZEN QUESTIONS FOR MANAGEMENT

- 1. How many cleanable square feet (CSF) of space are required to be cleaned?
- 2. How many custodians, and how much money are needed to clean all buildings?
- 3. How many custodians, and how much money are needed to clean future buildings?
- 4. When is it best to perform routine work, and to schedule project work?
- 5. What cleaning level can be expected with current FTEs and budget?
- 6. What cleaning level is actually accomplished with current FTEs and budget?
- 7. Are the days of the week equally work loaded?
- 8. Are the custodians equally work loaded?
- 9. What is the average CSF and GSF per custodian?
- 10. Are industry-accepted standards and Best Practices used in current operations?
- 11. How does the organization/operations compare to other similar institutions?
- 12. What can be done to enhance service and cost effectiveness of cleaning operations?
- 13. What is the make-up and profile of the custodial workforce?

#### "We don't know" is not an acceptable answer!

**H**unter Consulting & Training



## **Assessment Technical Foundation**





# ASSESSMENT TECHNICAL FOUNDATION GUIDELINES, CONCEPTS, AND PROTOCOLS

- Cleaning industry and higher education facilities management community accepted guidelines and protocols:
  - APPA<sup>1</sup>, the association for higher education facilities professionals, published Custodial Operational Guidelines for Educational Facilities (APPA Guidelines);
  - APPA Guidelines provides custodial services organizations with standard concepts and protocols for staffing and managing the cleaning function;
  - APPA Guidelines is in its 3rd edition (updated in 2011), and has been in the public domain for many years;
  - APPA Guidelines is accepted by the higher education and commercial cleaning industry as a de facto standard for custodial operations and staffing;
  - ISSA<sup>2</sup> 540 Cleaning Times is the industry accepted standard for estimating FTE and budget requirement for cleaning operations;
- This assessment relies heavily on the concepts and protocols contained in the APPA Guidelines and ISSA 540 Cleaning Times click on the icons below to learn more.

<sup>1</sup>Custodial Operational Guidelines for Educational Facilities (APPA Guidelines) – this is a publication of custodial staffing and management concepts and protocol that have been in the public domain for many years and has been accepted by the higher education and commercial cleaning community as a de facto standard for managing cleaning operations (see <u>www.APPA.org</u>). <sup>2</sup>International trade association for the cleaning industry worldwide.





# ASSESSMENT TECHNICAL FOUNDATION APPA GUIDELINES KEY COMPONENTS

- Define cleanliness APPA Level-1 through APPA Level-5 (Level-1 is best and Level-5 is worst);
- Provide lists of cleaning tasks and the performance frequency for different categories of spaces to achieve the five cleanliness levels;
- Provide normalized "time to perform" guidelines for all tasks from ISSA 540 Cleaning Times<sup>1</sup>, adopted to higher education cleaning environment normalized to the average custodial organization found in educational institutions;
- Provide a protocol for determining the FTEs and budget needed to achieve the desired cleanliness level by average organizations;
- Provide an audit and inspection protocol for quality assurance, and for determining what cleanliness level is actually being achieved.

<sup>1</sup>ISSA 540 Cleaning Times – published by ISSA, The Worldwide Cleaning Industry Association, and is an industry accepted reference for estimating how much time it takes to perform cleaning tasks (<u>www.ISSA.com</u>).





# ASSESSMENT TECHNICAL FOUNDATION APPA CUSTODIAL SERVICE LEVEL

<ul> <li>Level 1 - Orderly Spotlessness: Level 1 establishes cleaning at the highest level. It was developed for the corporate suite, the donated building, or the historical focal point. This is show-quality cleaning for that prime facility.</li> <li>Floors and base moldings shine and/or are bright and clean; colors are fresh. There is no buildup in corners or along walls.</li> <li>All vertical and horizontal surfaces have a freshly cleaned or polished appearance, and have no accumulation of dust, dirt, marks, streaks, smudges, or fingerprints.</li> <li>Washroom and shower tile and fixtures gleam and are odor-free. Supplies are adequate.</li> <li>Trash containers and pencil sharpeners are empty, clean, and odor-free.</li> </ul>	<ul> <li>Level 2 - Ordinary Tidiness: Level 2 is the level at which APPA and the higher education housekeeping community has historically advocated as the level to aspire to. Lower levels for washrooms, changing/locker rooms, and similar type facilities are not acceptable.</li> <li>Floors and base moldings shine and/or are bright and clean. There is no buildup in corners or along walls, but there can be up to two days worth of dirt, dust, stains, or streaks.</li> <li>All vertical and horizontal surfaces are clean, but marks, dust, smudges, and fingerprints are noticeable with close observation.</li> <li>Washroom and shower tile and fixtures are clean and are odor-free. Supplies are adequate.</li> <li>Trash containers and pencil sharpeners are empty, clean, and odor-free.</li> </ul>
<ul> <li>Level 3 - Casual Inattention: Level 3 reflects the first budget cut, or some other staffing-related problem. It is a lowering of normal expectations. While not 100% desirable, it has yet to reach an unacceptable level of cleanliness.</li> <li>Floors are swept clean, but upon close observation dust, dirt, and stains, as well as a buildup of dirt, dust, and/or floor finish in corners and along walls, can be seen.</li> <li>There are dull spots and/or matted carpet in walking lanes, and streaks and splashes on base molding.</li> <li>All vertical and horizontal surfaces have obvious dust, dirt, marks, smudges, and fingerprints.</li> <li>Lamps all work and all fixtures are clean.</li> <li>Trash containers and odor-free.</li> </ul>	<ul> <li>Level 4 - Moderate Dinginess: Level 4 reflects the second budget cut, or some other significant staffing-related problem. Areas are becoming unacceptable. People are beginning to accept an environment lacking normal cleanliness. In fact, the facility begins to constantly look like it requires a good "spring cleaning."</li> <li>Floors are swept clean, but are dull. Colors are dingy, and there is an obvious buildup of dust, dirt, and/or floor finish in corners and along walls. Molding is dull and contains streaks and splashes.</li> <li>All vertical and horizontal surfaces have conspicuous dust, dirt, smudges, fingerprints, and marks that will be difficult to remove. Less than 5% of lamps are burned out, and fixtures are dingy.</li> <li>Trash containers and pencil sharpeners have old trash and shavings. They are stained and marked. Trash cans smell sour.</li> </ul>
<ul> <li>Level 5 - Unkempt Neglect: Level 5 is the final and lowest level. The trucking is cleaning accomplished at an unacceptable level.</li> <li>Floors and carpets are dirty and have visible wear and/or pitting. Colors are floor finish in corners and along walls. Base molding is dirty, stained, and st</li> <li>All vertical and horizontal surfaces have major accumulations of dust, dirt, maintenance or cleaning is done on these surfaces.</li> <li>More than 5% of lamps are burned out, and fixtures are dirty with dust bal</li> <li>Trash containers and pencil sharpeners overflow. They are stained and maintenance</li> </ul>	reaked. Gum, stains, dirt, dust balls, and trash are broadcast. smudges, and fingerprints, as well as damage. It is evident that no Is and flies.

# ASSESSMENT TECHNICAL FOUNDATION EXAMPLE APPA STANDARD SPACE MATRIX FOR ESTIMATING

- Higher levels of cleanliness require more tasks to be performed more frequently;
- More tasks performed more frequently require more FTEs, more supplies, more equipment and more funding;
- Tasks and frequency based on empirical data collected by APPA from a large population of colleges and university when the protocol was developed;
- Think RSMeans equivalent for cleaning services.

Routine Activities	Level 1	Level 2	Level 3	Level 4	Level 5	Base Time
Spot clean walls and doors	D	W	М	S/A		3.12
Relamp	D/A	D/A	D/A	D/A	D/A	3.46
Clean chalkboards and trays	D	D	D	A/D	A/D	3.15
Dust flat surfaces	D	W	W	М		1.16
Empty waste containers	D	D	D	A/D	A/D	0.46
Empty pencil sharpeners	D	D	D	A/D		0.40
Sweep, dust-mop floors	D	D	A/D	A/D	A/D	16.40
Clean erasers	D	D	D	A/D	A/D	0.60
				Total B	ase Time	28.7
Project Activities	Level 1	Level 2	Level 3	Level 4	Level 5	Base Time
Dust blinds	М	A	A			4.9
Project-clean furniture and seating	Q	A	A			73.73
Clean trash containers	W	S/A	S/A	A	A	1.0
Dust vents	М	Q	S/A	S/A		1.5
Perform interim floor care	Q	Q				87.7
Strip/refinish floors	A	A	A	A		166.64
Clean windows	S/A	A	A			14.23
Project-clean light fixtures	A	A	A			101.2
	W	М	Q	S/A		14.9
Spray-buff/burnish floors			М	S/A		16.6
Spray-buff/burnish floors Damp-mop floors	D	М	IVI	5/A		10.0
	D	M			ase Time	482.63

Q = Quarterly, A = Annual, S/A = Semiannual, D/A = Special notation for relamping based on expected lamp life cycle. )



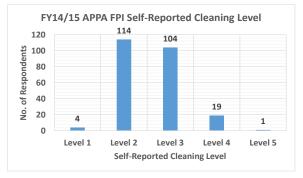
# Assessment Technical Foundation Adopted Cleanliness Level – **National Trends**

- APPA and the higher educational facilities management community have traditionally advocated APPA Level-2;
- However, due to limited resources and constrained budgets, many colleges and universities have targeted APPA Level-3, or somewhere between APPA Level-3 and APPA Level-2;
- Data from FY14/15 APPA Facilities Performance Indicators (FPI) Survey<sup>1</sup>;
- 104 (43%) of 242 institutions reported APPA Level 3;
- Average level reported was 2.58;
- This has been the trend in the APPA reports;

Because of budget constraints, The University of Wyoming will likely have to adopt APPA Level-3, or somewhere between APPA Level-3 and APPA Level-2 (as close to APPA Level-2 as possible).

<sup>+</sup> The APPA Facilities Performance Indicators (FPI) survey is conducted annually by APPA to collect comparative analysis facilities management benchmark data from institutions through the U.S.A. and Canada (http://www.appa.org/Research/fpi.cfm).

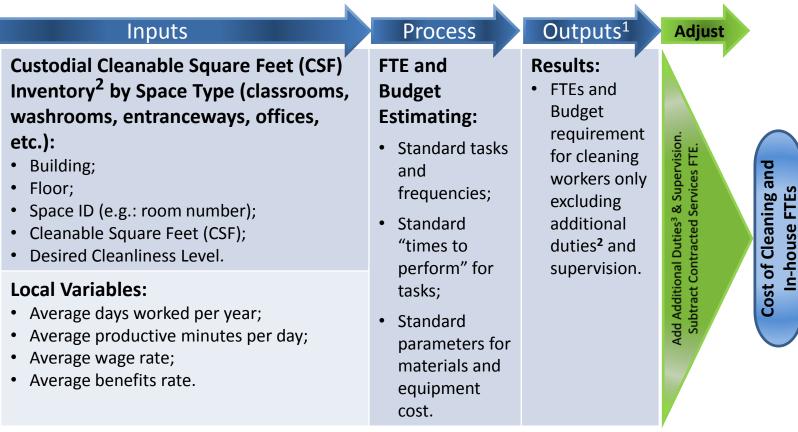
unter Consulting & Training



Cleaning	No. of	Dorcont
Level	Respondents	Percent
Level 1	4	1.7%
Level 2	114	47.1%
Level 3	104	43.0%
Level 4	19	7.9%
Level 5	1	0.4%
Total	242	100.0%



# ASSESSMENT TECHNICAL FOUNDATION APPA WORKLOADING AND BUDGET ESTIMATING PROCESS



- FTEs and budget for supervision and additional duties assigned to the personnel responsible for the core function must be added to the estimating protocol output to derive the total requirement.
- 2. Estimates are based on CSF data developed by the consultant from space inventory data files provided by UW staff. The custodial staff should subject the data to field validation to transform it into a validated Cleanable Square Feet Inventory data set in order to derive full benefits from the information.
- 3. Examples of additional duties are (i) custodians performing special event support; (ii) custodians performing snow removal; (iii) custodians hanging pictures or moving furniture; and (iv) custodians preparing dorm room after change of occupant.



Desired Service Level



Custor

#### **DEPARTMENTAL STRENGTHS**





#### **DEPARTMENTAL STRENGTHS**

- Custodial worker personnel turnover rate and vacancy rate are relatively low;
- Fringe benefits for custodial employees are considered good by the CS employees;
- CS custodial workers recognize and appreciate the value of working at the University of Wyoming;
- CS custodial workers are highly respected and appreciated by the campus community;
- CS custodial workers are aware that they are appreciated by the campus community and are proud of this fact;
- CS management recognizes the value of benchmarking with Cohorts;
- Cleanliness based on standards (APPA) is recognized as important, and there is an attempt to conduct inspections based on locally derived standards;
- CS has access to good space inventory data used to develop a suitable "space-by-space" Cleanable Square Feet Inventory a key and essential element of a successful high-performing cleaning organization.





**CURRENT CLEANING PERFORMANCE** 





#### **CURRENT CLEANING PERFORMANCE**

- Organization
  - CS remains an old-style custodial organization, operating primarily in an informal ad hoc mode with few documented standard processes and procedures;
  - Worker to supervisory-leadership ratio needs to be reviewed;
  - Job titles for custodial workers are peculiar, and could possibly impact recruitment and professional development.
- Training program and professional development Program
  - No formal professional cleaning skills training program for workers;
  - Limited management/leadership professional development for supervisors;
  - Limited exposure to other cleaning professionals peers or cleaning professional organizations.
- Inadequate equipment program
- Recent budget cuts will require CS to transform as an organization in order to continue to meet campus cleanliness needs, and to reverse the trend toward an unsustainable state.





#### **CURRENT CLEANING PERFORMANCE**

- The campus is generally clean and healthy and does not have a cleaning crisis, however, overall campus interior appearance, general cleanliness, and conditions of interior surfaces are trending toward an unsustainable state;
- Consultant estimates CS is performing at <u>APPA Level 4.0</u><sup>1</sup> based on buildings tours conducted during the site visit;
  - Some carpeted floors have stains and soil penetrations;
  - Some hard floors have scuff marks and build-up in corners and along baseboards;
  - Grout lines in some restrooms floors are discolored due to dirt build-up;
  - CS does not have standard task and frequency lists for each specific building;
  - Except for an informal priority concept, much is left to the discretion of the individual custodial worker to perform on "As we can" or "As required" basis;
  - CS does not have a systematic "Projects Program" and therefore is not scheduling and performing recurring interim and restorative floor care tasks;
  - Floor care tasks are deferred to semester and summer break periods and often performed on an "As we can" or "As required" basis.

<sup>1</sup>Note: The APPA guidelines are designed to make the inspection as objective as possible, but there is still an element of subjectivity. Since floor care is most time consuming, and most critical to life cycle of facility, it is heavily weighed in the score.



**CURRENT CLEANING PERFORMANCE OBSERVATIONS** 

#### HUNTER'S LAW OF CLEANING TASKS AND FREQUENCIES

# "When We Can" and/or "As Required" = "Probably Doesn't Get Done"





### **CUSTOMER AND STAFF PERCEPTIONS**





### CUSTOMER AND STAFF PERCEPTIONS

 Consultant conducted individual interviews and held focus groups discussions with University of Wyoming Operations staff and customers to gather information on staff and customer perceptions regarding the University of Wyoming custodial services.

#### Customer & Staff Perceptions

- Communication
- > Timeliness
- Responsiveness
- Complaint Handling
- > Access
- Quality
- > Competence
- Customer Service
- Ease of Doing Business
- Overall Cleanliness

	Staff
	Interviews
$\succ$	Training
$\succ$	Processed
$\succ$	Procedures
$\succ$	Cleaning Tasks
$\checkmark$	Frequencies and Schedules
$\succ$	Routine vs. Project Concept
$\checkmark$	Supplies
$\succ$	Equipment
$\succ$	Audit/Inspection Program
$\succ$	Vacant Positions and Hiring Process

Attendance



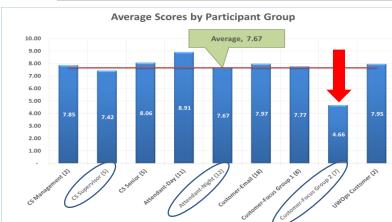
Confidential for The University of Wyoming for Discussion Purposes Only

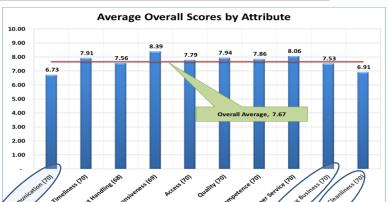


#### **CUSTOMER AND STAFF PERCEPTIONS – INFORMAL SURVEY RATINGS**

Scale of 1 to 10 1 = Very bad 10 = Very good Т

Customer And Staff Perceptions										
Participant Group	Communication (70)	Timeliness (70)	Complaint Handling (68)	Responsiveness (69)	Access (70)	Quality (70)	Competence (70)	Customer Service (70)	Ease of Doing Business (70)	
CS Management	6.50	9.00	8.50	8.00	7.00	8.50	8.00	6.50	9.00	
CS Supervisor	7.00	5.60	8.40	7.80	8.60	8.40	8.40	7.40	5.80	
CS Senior	8.00	7.40	8.20	8.80	8.80	6.80	7.40	9.00	8.60	
Attendant-Day	7.55	9.36	8.45	9.64	10.00	7.91	9.73	8.55	10.00	
Attendant-Night	5.75	7.92	6.08	8.58	8.08	8.83	8.50	8.25	7.75	
Customer-Email	7.83	8.50	8.28	8.17	7.00	7.83	8.11	8.61	8.11	
Customer-Focus Group 1	5.13	8.38	9.17	9.14	7.75	8.38	8.75	8.75	6.75	
Customer-Focus Group 2	4.71	5.57	4.29	6.00	4.71	6.43	2.14	4.86	2.43	
UWOps Customer	8.00	7.00	7.00	9.00	8.00	8.50	7.50	8.50	8.50	
Weighted Average	6.73	7.91	7.56	8.39	7.79	7.94	7.86	8.06	7.53	
Customer	6.59	7.85	7.50	8.00	6.79	7.68	7.12	7.94	6.76	
CS Staff	6.86	7.97	7.61	8.75	8.72	8.19	8.56	8.17	8.25	
Perception Gap	0.27	0.12	0.11	0.75	1.93	0.52	1.44	0.23	1.49	





Confidential for The University of Wyoming for Discussion Purposes Only

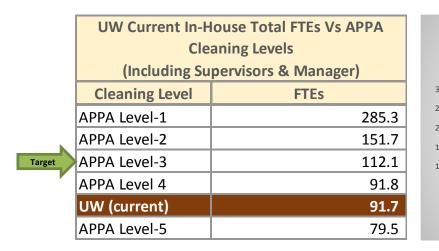


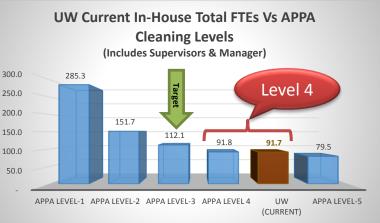
#### COST AND STAFFING ANALYSIS





#### TOTAL IN-HOUSE FTE REQUIREMENT





- Based on 2.9 million cleanable square feet of space;
- Auxiliaries, Housing, and Athletics spaces are cleaned by others;
- Total FTE requirement includes 6.0 positions for management and supervision;
- Management and supervisor based on current staffing not part of the APPA protocol;
- Further review is required to determine if management and supervisor staffing approach are adequate addressed in final report;
- University of Wyoming workers FTEs are enough to achieve APPA Level-4.

**H**unter Consulting & Training



## TOTAL IN-HOUSE FTE REQUIREMENT

CS has historically operated with no official university administration designation of the

desired level of cleanliness CS is required to achieve;

- CS will need to add 20.4 FTEs to achieve APPA Level-3 (CS would need 112.1 total FTEs compared to the 91.7 Authorized FTEs); Due to vacancies, CS has historically operated with an average 86.32 Available FTEs; While CS is understaffed based on FTE requirements for an average organization, staffing is not the only variable impacting the level of service the organization is capable of achieving; Required FTEs are based on average organizations – high performing organizations are able to deliver a higher level of service with the same resources as an average organization; Even with staffing below desired levels, CS could achieve better results by adopting Best Practices, better equipping the staff, and providing better training and professional development to its staff;
- For this assessment, estimated required FTEs for *APPA Levels* are based on *Cleanable Square Feet* data collected with the assistance of the Consultant specifically for this assessment project.



٠

•

•

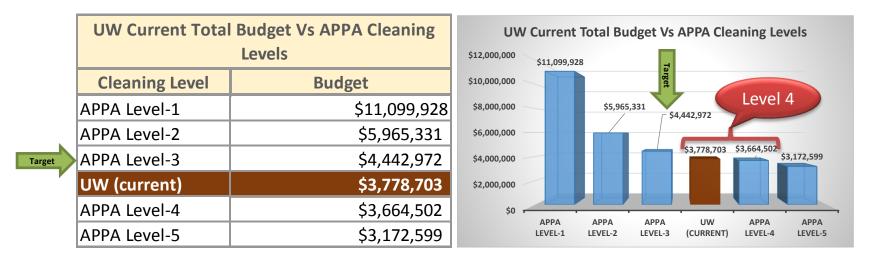
٠

•

٠



#### ESTIMATED BUDGET TO FUND FTE REQUIREMENT



- Above table and graph reflect budget requirement including management and supervision;
- Assuming that the cost of supplies would be equal to 10% of the labor cost, and the cost of equipment will be 5% of the labor cost;
- Does not include uniforms, vehicles, utility carts, office supplies or other expenses in the custodial organization budget not directly connected to the cleaning function;
- CS (current) budget is based on FY 16 actual expenditures;
- CS currently spends less than 7.5% for supplies and 1.7% for equipment.
- In FY16 CS was funded slightly better than required to achieve APPA Level-4.





# Factors contributing to current level of cleanliness being achieved:

- Budget and staffing constraints;
- Inadequate equipment program the annual equipment expenditure is well below expected. Age and condition of equipment are problematic;
- Historical Available FTEs are less than Authorized FTEs due to vacancies and unnecessarily slow hiring process;
- Standardization, training, and *Best Practices* are not fully functioning throughout all levels in the custodial organization - the workforce is working in an informal mode;
- No formal program/plan for performing *Project Tasks* interim and restorative floor care (project work) is not scheduled or performed consistently – deferred to summer break;
- Historical hiring process and hiring freeze have hindered timely replacement of workers;
- Lack of use of technology to assist in workloading, staff assignment, and scheduling.



#### **Resources – Bottom Line**

# Estimated FTE and budget requirements for average performing organizations:

- 151.7 FTEs/\$5.96M to clean all spaces at APPA Level-2
- 112.1 FTEs/\$4.44M to clean all spaces at APPA Level-3
- 91.8 FTEs/\$3.66M to clean all spaces at APPA Level-4

#### FTEs in Current Organization Chart and FY 16 Final Budget Expenditures:

- 91.7 FTEs/\$3.78M to clean the campus, including management and supervision;
- Based on its existing staff operating in its current mode of operations, CS is staffed and funded to achieve APPA Level-4.

#### FTEs & Budget Gap to achieve APPA Level-3:

• 20.4 FTEs/\$0.66M to clean the campus, including wages/salary, fringe benefits, supplies, equipment replacement, management and supervision.

<sup>1</sup>APPA, the professional association for educational facilities officers (<u>www.appa.ora</u>) published guidelines that define cleanliness level 1 through 5 with 1 being the best and 5 being the worst.



# **EQUIPMENT AND CONSUMABLES ANALYSIS**





#### CUSTODIAL EQUIPMENT AGE PROFILE

- CS has an equipment inventory data set, but some key data elements are not available;
- Of the 949 pieces of equipment in the data set, 585 pieces have known purchase dates;
- 364 pieces with no known purchase dates and are likely over 20 years old;
- The Equipment Age Profile table to the right reflects the age of the equipment with known purchase dates;
- 164 pieces with known purchase date are over 20 years old;
- The average age of the 585 pieces with known purchase dates is 13.23 years;
- There is a large number of pieces in the 1-5 and 6-10 age bracket.

Equipment Purchase	Equipment Age Profile			
	Number	Average		Number of
	of Pieces	Age	Age Range	Pieces In
With Unknown Purchase Date	364			Age Range
With Known Purchase Date	585	13.23	Less Than 1	13
Total	949		1-5	121
			6-10	211
			11-15	60
			16-20	16
			21-25	58
			26-30	50
			21-40	56
			Total	585





#### EQUIPMENT AND CONSUMABLES COST PERCENTAGE RATIOS

- Labor to non-labor ratio typically 85/15 to 80/20 compared to UW 91/9;
- Cost for consumables is typically 10%-15% of labor cost compared to UW 7.5%;
- Cost to ensure the workforce is properly equipped is typically 5%-7% of labor cost compared to UW 1.72%;
- The above observations support the conclusion that UW does not have an adequately funded equipment program;
- The above observations also indicate that further review is needed regarding the labor cost to non-labor cost ratio as it relates to consumables.

UW FY16 Cust Profil	As % of Total Cost	
Total Labor Cost	\$3,435,781	90.9%
Non-Labor Cost	\$342,922	9.1%
Total Cost	\$3,778,703	100%

Non-Labor Cost Component	Cost	As % of In- Hse Labor Cost	Rule of Thumb
Consumables	\$256,344	7.5%	10% - 15%
Equipment	\$58,961	1.72%	5%-7%
Other Non-Labor	\$27,617	0.80%	
Non-Labor Cost	\$342,922		

NOTE: Custodial workers are not using dilution dispensers and are manually mixing chemicals.



# COMPARATIVE ANALYSIS - FY 14-15 APPA FPI





# COMPARATIVE ANALYSIS – FY 14-15 APPA FPI UW COHORTS PROFILE FOR COMPARATIVE ANALYSIS

- 13 institutions were selected from the APPA 2014-2015 FPI report as cohorts;
- Cohorts were selected based on similar GSF, Carnegie Class, and student enrollment;
- Five of the cohorts are also on UW's Academic peer list;
- The purpose is to get a sense of how CS compares with other similar institutions;
- Comparisons provide indications of where additional research is warranted;
- Firm and definitive conclusions should only be drawn after further research.

	UW Laramie	Public	Research High	RMA	5,000-11,999	Ехс		4,137,459	\$3,778,703	91.7	51%	
	Cohorts Similar GSF, Carnegie Class and Student Enrollment											
Seq	Institution	Funding	Carnegie Class	APPA Region	Enrollment Range	Aux Svcs	Bldg. Age Range	Custodial Total GSF	Custod Total Expnds	Cust In- House FTE	Custod Benfts %	On Client's Peer List (Yes or No)
1	Cleveland State Univ	Public	Research High	MAPPA	12,000-19,999	Exc	20-29	4,200,120	\$3,871,223	87.0	35%	No
2	Kent St Univ	Public	Research High	MAPPA	20,000+	Exc	30-39	3,282,703	\$5,023,660	99.0	35%	No
3	New Mexico St Univ	Public	Research High	RMA	12,000-19,999	Inc	30-39	3,220,411	\$3,606,733	102.2	34%	Yes
4	Northern Arizona Univ	Public	Research High	RMA	20,000+	Inc	40-49	4,925,268	\$3,929,704	108.4	60%	No
5	So Dakota St Univ	Public	Research High	САРРА	12,000-19,999	Exc	40-49	2,158,231	\$3,771,202	74.0	37%	Yes
6	Univ Colorado/Boulder	Public	Research Very High	RMA	20,000+	Exc	40-49	4,907,736	\$4,702,821	125.5	36%	No
7	Univ Idaho	Public	Research High	RMA	5,000-11,999	Exc	40-49	2,830,777	\$2,749,326	60.0	54%	Yes
8	Univ Nebraska/Lincoln	Public	Research Very High	САРРА	20,000+	Exc	30-39	5,654,413	\$8,078,830	198.0	36%	Yes
9	Univ No Carolina/Charlotte	Public	Research High	SRAPPA	20,000+	Exc	20-29	3,511,151	\$6,210,557	156.0	40%	No
10	Univ No Dakota	Public	Research High	CAPPA	12,000-19,999	Exc	40-49	3,625,200	\$4,912,079	96.7	62%	No
11	Univ Oregon	Public	Research Very High	РСАРРА	20,000+	Exc	30-39	3,857,650	\$4,839,509	100.0	35%	No
12	Univ So Alabama	Public	Research High	SRAPPA	12,000-19,999	Exc	40-49	2,662,397	\$3,271,677	90.0	30%	NO
13	Univ Utah	Public	<b>Research Very High</b>	RMA	20,000+	Exc	30-39	6,444,599	\$4,979,967	212.56	22%	Yes
						Av	erage>	3,944,666	\$4,611,330	116	40%	





#### COMPARATIVE ANALYSIS – FY 14-15 APPA FPI APPA ROCKY MOUNTAIN REGION





#### RMA's Website

The Rocky Mountain region of APPA serves the states of Arizona, Colorado, Idaho, Montana, New Mexico, Utah, and Wyoming; the Canadian provinces of Alberta and Saskatchewan; and the Mexican states of Chihuahua, Durango, Nayarit, Sinaloa, and Sonora.



#### COMPARATIVE ANALYSIS – FY 14-15 APPA FPI UW COMPARISON TO COHORTS AND SUMMARY BENCHMARKS

Institution	Students	Custodial GSF Cleaned	Custodial Cost	Custodia I Cost/ GSF	Custodial Cost/ Student	Custodial Staffing Density (GSF/FTE)	Custodial Reported Service Level
UW Laramie	10,344	4,137,459	\$3,778,703	\$0.91	\$365	45,890	4.00
All APPA	13,106	3,500,525	\$4,788,591	\$1.41	\$404	34,899	2.59
All RMA	16,727	3,785,388	\$4,399,208	\$1.29	\$330	36,501	2.61
All Research High	16,136	3,755,406	\$4,773,796	\$1.27	\$338	34,351	2.60
All Public	15,003	3,910,630	\$5,171,174	\$1.41	\$311	35,246	2.67
All 5,000-11,999	8,174	2,091,915	\$2,879,769	\$1.42	\$355	34,795	2.55
Cleveland State Univ	12,513	4,200,120	\$3,871,223	\$0.92	\$309	44,446	2.00
Kent St Univ	24,197	3,282,703	\$5,023,660	\$1.53	\$208	33,159	3.00
New Mexico St Univ	12,902	3,220,411	\$3,606,733	\$1.12	\$280	31,511	2.00
Northern Arizona Univ	20,573	4,925,268	\$3,929,704	\$0.80	\$191	45,419	4.00
So Dakota St Univ	12,557	2,158,231	\$3,771,202	\$1.75	\$300	29,165	3.00
Univ Colorado/Boulder	28,399	4,907,736	\$4,702,821	\$0.96	\$166	39,109	4.00
Univ Idaho	8,834	2,830,777	\$2,749,326	\$0.97	\$311	47,180	3.00
Univ Nebraska/Lincoln	22,727	5,654,413	\$8,078,830	\$1.43	\$355	28,558	3.00
Univ No Carolina/Charlotte	24,716	3,511,151	\$6,210,557	\$1.77	\$251	22,507	2.00
Univ No Dakota	12,420	3,625,200	\$4,912,079	\$1.35	\$396	37,478	3.00
Univ Oregon	22,832	3,857,650	\$4,839,509	\$1.25	\$212	38,577	2.00
Univ So Alabama	16,462	2,662,397	\$3,271,677	\$1.23	\$199	29,582	2.00
Univ Utah	30,257	6,444,599	\$4,979,967	\$0.77	\$165	30,319	2.00
Cohort Average	19,184	3,944,666	\$4,611,330	\$1.22	\$257	35,155	2.69

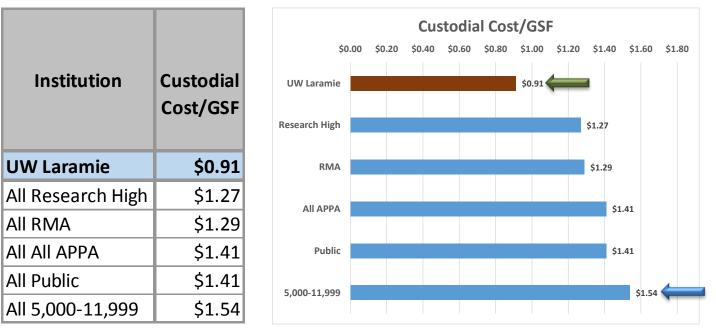


Confidential for The University of Wyoming for

Discussion Purposes Only



# COMPARATIVE ANALYSIS – FY 14-15 APPA FPI UW COMPARISON TO SUMMARY BENCHMARKS (COST PER GSF)



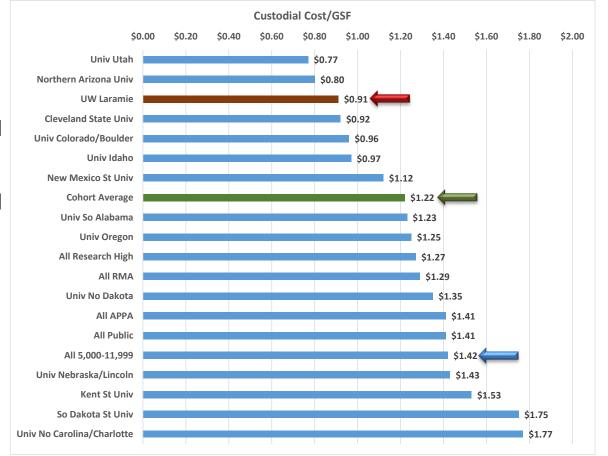
- UW cost per GSF is less than all summary benchmarks:
  - Low wage wages is most significant factor;
  - Authorized positions below the number commensurate with the desired cleaning level;
  - Personnel position vacancies is a factor.



#### COMPARATIVE ANALYSIS – FY 14-15 APPA FPI

UW COMPARISON TO COHORTS AND SUMMARY BENCHMARKS (COST PER GSF)

- Cost/GSF is lower than the cohort average;
- Cost/GSF is lower than all summary benchmarks;
- Cost/GSF is lower than all except two cohorts;
- Low Cost/GSF driven by lower wage rate and under-staffing.

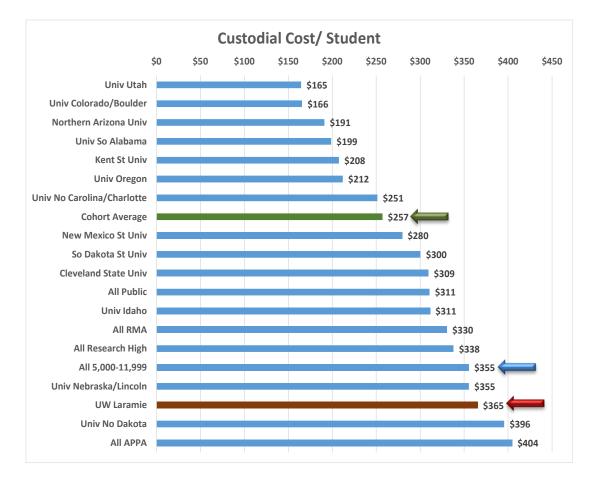




#### COMPARATIVE ANALYSIS - FY 14-15 APPA FPI

UW COMPARISON TO COHORTS AND SUMMARY BENCHMARKS (COST PER STUDENT)

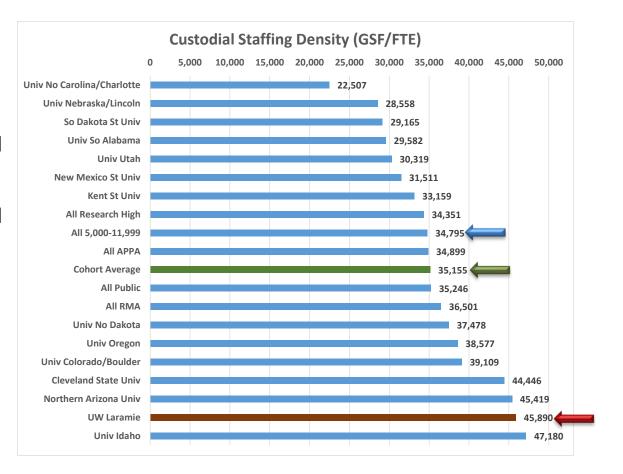
- Cost/Student is higher than the cohort average;
- Cost/Student is higher than all summary benchmarks except one;
- Cost/Student is higher than all except one cohorts;
- Low Cost/Student driven by lower student population relative to cohorts and institutions in benchmarks;
- Cost/Student comparable to other institution in the 5,000-11,999 student population range.





# COMPARATIVE ANALYSIS – FY 14-15 APPA FPI UW COMPARISON TO COHORTS AND SUMMARY BENCHMARKS (GSF/FTE)

- GSF/FTE is significantly higher than the cohort average;
- GSF/FTE is higher than all summary benchmarks;
- GSF/FTE is higher than all except one cohort;
- The above indicators mean that each UW custodial worker clean more square feet of space than custodial workers at most of the APPA FPI participating institutions;

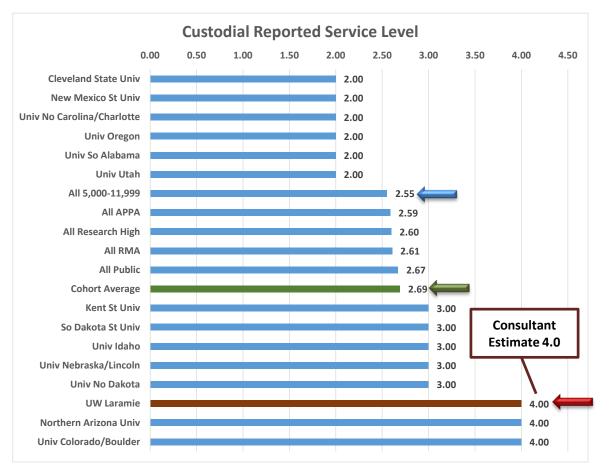




#### SUPPORTING SLIDES

#### UW COMPARISON TO COHORTS AND SUMMARY BENCHMARKS (SERVICE LEVEL)

- Consultant estimates UW achieving APPA Level-4;
- Most cohorts reported Level-3 or Level-4;
- Reported Service Levels in the FPI survey are determined formally by audit for some participants and by professional informal estimation by others;
- The FPI survey will only accept whole numbers as input, so it should be interpreted as general information instead of precise numerically calculated data.





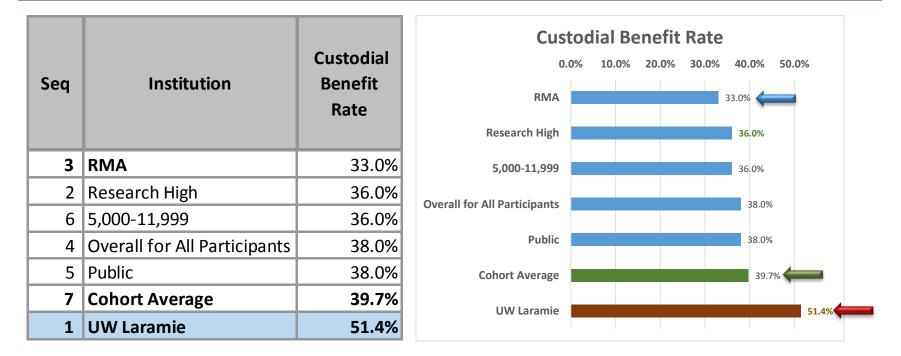
# FY 14-15 APPA FPI Comparative Analysis Wage Rate Without Benefits

Institution	Custod Supt/ Mgr Avg Salary	Custod Supvr/ Fore Avg Salary	Custod Crew/Team Ldr Avg Salary	Custod/ Hsekeeper Avg Salary (w/o Benefits)	\$0.00 UW Laramie	ekeeper Avg Salary (w/o Benefits) 0 \$2.00 \$4.00 \$6.00 \$8.00 \$10.00\$12.00\$14.00\$16.00 \$10.97
UW Laramie	\$28.74	\$15.90	\$12.75	\$10.97	Research High	\$12.54
Research High	\$31.11	\$18.72	\$14.59	\$12.54	RMA	\$12.55
RMA	\$30.11	\$18.96	\$14.93	\$12.55	Overall for All Participants	\$13.13
Overall for All Participants	\$33.18	\$20.77	\$16.13	\$13.13	Cohort Average	\$13.24
Cohort Average	\$32.27	\$20.07	\$20.95	\$13.24	Public	\$13.90
Public	\$34.38	\$20.93	\$42.97	\$13.90		
5,000-11,999	\$32.58	\$20.97	\$16.12	\$14.06	5,000-11,999	\$14.06

- UW worker average salary rate without benefits is lower than all summary benchmarks;
- UW worker average salary rate without benefits is lower than the cohort average;
- UW worker average salary rate without benefits is lower than the Rocky Mountain APPA region.



# FY 14-15 APPA FPI COMPARATIVE ANALYSIS BENEFITS RATE

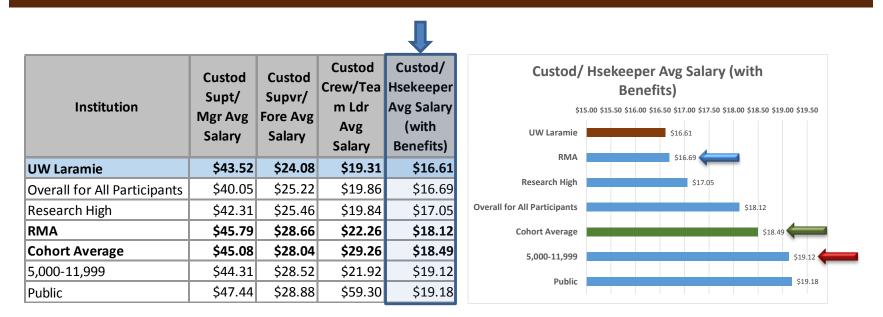


- UW fringe benefits is greater than all summary benchmarks;
- UW fringe benefits is greater than all the cohort average.





# FY 14-15 APPA FPI COMPARATIVE ANALYSIS WAGE RATE WITH BENEFITS



- UW worker average salary rate with benefits is lower than all summary benchmarks;
- UW worker average salary rate with benefits is lower than the cohort average;
- UW worker average salary rate with benefits is lower than the Rocky Mountain APPA region.





#### FINDINGS AND OPPORTUNITIES





#### **OPPORTUNITIES**

# Opportunities exist for UW Operations Custodial Services to embark upon a systematic program of service enhancement by orderly and methodically implementing recommendations contained in this report.

This assessment report includes *Findings and Recommendations* centered around the eleven areas below accompanied by multiple-action recommendations:

1.	Number of front-line workers available to perform work;	t.
2.	Personnel development including custodial skills training and supervisory/leadership	men
	training and professional development;	Investment
3.	Effective equipment program;	Ē
4.	Effective recruitment and hiring to properly staff the custodial operation;	
5.	Standardization and Best Practices, including standard supplies and equipment;	SS
6.	Customer communications and outreach;	Practices
7.	Formal written processes and procedures;	
8.	Administrative support to custodial services leadership;	Best
9.	Technology support for the custodial function;	Adopt
10.	Data and information analysis to support operational decisions;	Ā
11.	Personnel evaluation, and reward and recognition program.	



# LIST OF FINDINGS

	No.	Finding		No.	Finding
	1	Need to transform into a high-performing professional cleaning organization.		9	Need to review and redevelop standardized processes and procedures
	2	Revise leadership duties and consider different organizational structure.		10	Need for a program to ensure project tasks are performed as prescribed.
	3	Revise custodial workers job titles.		11	Need for cleaner and more orderly janitor closets and carts.
	4	Need for an in-house managed formal training program and an in-house trainer.		12	Need to use technology to assist in workloading, staff assignment, and scheduling.
	5	Need for supervisory and crew leader training and professional development.			
l				13	Need to make use of custodial performance indicators.
	6	Filling vacant custodian positions takes too long. Not staffed to achieve desired APPA Level.			
				14	Need for a formal quality assurance program.
	7	Properly align custodial manager position title with peer UW Operations positions.		15	Need for a <u>Cleanable Square Feet Data Set</u> .
	8	Need to review the equipment inventory and equipment procurement program.		16	Need for enhanced customer communication.



#### **IMPLEMENTATION APPROACH**

#### Organized To Implement

- Form Custodial Services
   Enhancement Program
   Implementation Team (CSEP-IT);
- Appoint team members in writing with appointment letter signed by the VP or President.

#### Discovery

- Research various concepts of cleaning such as Team Cleaning vs Zone Cleaning;
- Learn more about APPA, ISSA, and CMI and other external cleaning resources;
- Make benchmark visits to other universities.

#### Develop Implementation Plan

- Develop Integrated Cleaning
   Management Plan (ICMP) using
   recommendations in this report
   as starting point;
- Obtain formal approval of plan from Executive Director, and VP;
- Brief campus stakeholders on plan.

#### **Proof of Concept**

- Select several buildings to serve as pilot sites;
- Implement and test new concepts and ideas in pilot buildings.

#### Implementation Roll Out

- Roll out proven concepts to several more buildings;
- Repeat rolling out to several buildings until all implementation has been achieved in all buildings;

#### Continuous Improvement

- Conduct periodic program review and selfassessment;
- Make adjustment as necessary;
- Keep campus stakeholders informed .



Confidential for The University of Wyoming for Discussion Purposes Only



# THE END – QUESTIONS?????



