Inventories

- Accounting Principles

2022. 5.

Yangin Yoon

Recap the previous class

- First-in, first out (FIFO)
- First purchase amount is the first cost assigned to cost of goods sold
- Ending inventory is based on the latest purchase amounts
- Last-in, first-out (LIFO)
 - Costing is the opposite of FIFO
 - Last purchase amount goes immediately to cost of goods sold
 - Ending inventory is based on the oldest purchase amount
- Weighted-Average Cost
 - Based on the average unit amount of inventory during the period

Recap the previous class

The ABC OIL started its business on 20X2. 1.10.
 This is a gasoline station, and it sells only one type of gasoline.
 It has bought gasoline from its suppliers. The company use FIFO methods.

Date	Amounts (liters)	Unit price (\$/liter)	Total Value
20X2. 1. 15.	100	20	2,000
20X2. 1. 25.	300	15	4,500
20X2. 2. 20.	500	18	9,000
20X2. 3. 25.	400	16	6,400

• 20X2. 2. 1. the shop sold 350 liters. How much is the cost of goods?

$$100 * 20$$

+ $250 * 15 = 2000 + 3750 = 5,750$

• 20X2. 3. 26. the shop sold 600 liters. How much is the cost of goods?

$$50 * 15$$

+ $500*18$
+ $50 * 16 = 750 + 9000 + 800 = 10050$

Recap the previous class

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20X2. 3. 25.	400	16	6,400

• 20X2. 2. 1. the shop sold 350 liters. How much is the cost of goods?

Cash	XXX	Revenue	XXXX
Cost of goods	5,750 V	Inventory	5,750

• 20X2. 3. 26. the shop sold 600 liters. How much is the cost of goods?

Cash	XXX ,	Revenue	XXXX
Cost of goods	10,050	Inventory	10,050

- IFRS Standard
- IAS 2 Inventories
- This is equivalent to "기업회계기준서(K-IFRS) 제1002호 재고자산."
- Paragraph 9
- Inventories shall be measured at the lower of cost and net realisable v alue. value.
- Paragraph/10
 - The cost of inventories shall comprise all costs of purchase, costs of co nversion and other costs incurred in bringing the inventories to their present location and condition.

• ABC OIL bought gasoline from its supplier. ABC OIL paid \$100 to its supplier. In addition, ABC OIL paid \$10 to a delivery company for oil transportation. All transactions occurred with cash.

- Provide the journal entry. Value

Paragraph 10 – "The cost of inventories shall comprise all costs of purchase, costs of conversion and other costs incurred in bringing the inventories to their present location and condition."

Journal Entry

Inventory	\$100	Cash	\$1004
Transportation expens	se \$10 \	Cash	> \$10
Inventory	\$ 10 	:V Transpor t	tation expense \$10

Inventory \$110 Cash Cash \$100

- ST Toy bought raw material from its supplier. ST Toy paid \$200 to its supplier. In addition, ST Toy paid \$80 to the factory workers as wage. The eaccounting department employees of ST Toy were also paid \$40. ST Toy manufactured toys and used up all of its raw material. All transactions occurred with cash.
- Paragraph 10 "The cost of inventories shall comprise all costs of purchase, costs of conversion and other costs incurred in bringing the inventories to the r present location and condition."
- · Journal Entry Imentor

Raw material (asset)	\$200	Cash		\$200
Factory worker salary expens	se √ \$80	Cash	,	3 \$80
Acct worker salary expense	\$40	Cash		\$40

Product (asset, inventory) \$\,^\\$200 Raw material (asset) \$200

Product (asset, inventory) 480 Factory worker salary expense \$80 C

- ST Toy bought raw material from its supplier. ST Toy paid \$200 to its supplier. In addition, ST Toy paid \$80 to the factory workers as wage. The accounting department employees of ST Toy were also paid \$40. ST Toy manufactured toys and used up all of its raw material. All transactions occurred with cash.
- The toys can be sold \$500 in the market.
 - Provide the general entry.
- Paragraph 9 "Inventories shall be measured at the lower of cost and net realisable value."
- Journal Entry
 - → No additional journal entry is needed.

- ST Toy bought raw material from its supplier. ST Toy paid \$200 to its s upplier. In addition, ST Toy paid \$80 to the factory workers as wage. Th e accounting department employees of ST Toy were also paid \$40. ST T oy manufactured toys and used up all of its raw material. All transactio \$ 280 pto \$100 ns occurred with cash.
- The toys can be sold \$100 in the market.
 - Provide the general entry.
- Paragraph 10 "Inventories shall be measured at the lower of cost and net re alisable value."
- Journal Entry

Inventory write-down (expense) \$180 Product (asset)

- ST Toy bought raw material from its supplier. ST Toy paid \$200 to its supplier. In addition, ST Toy paid \$80 to the factory workers as wage. The accounting department employees of ST Toy were also paid \$40. ST Toy manufactured toys and used up all of its raw material. All transactions occurred with cash.
- The toys can be sold \$100 in the market.
 - Provide the general entry.
- Paragraph 10 "Inventories shall be measured at the lower of cost and net re alisable value."

(K-GAAP 7 – Paragraph 7.20)

• Journal Entry

Inventory write-down (expense) \$180 Accumulated loss (asset) \$180

Inventories (exercise)

• Self-Study Material (in the e-class, Chapter #7)

7-6 0 2	Cost of Goods Sold Calculations Complete the Cost of Goods Sold section for five companies:	or the state	ments of con	nprehensive	income of the	ne followir
		Able Company	Baker Company	Carter Company	Delmont Company	Eureka Company
	Beginning inventory	£32,000	£49,600			€ 38,400
	Purchases	53,000		€ 86,000	€179,000	
	Purchase returns		£ 2,000	€ 3,600	€ 400	€ 4,400
	Cost of goods available for sale	84,200		116,600		163,000
	Ending inventory		44,400	30,400	57,600	
	Cost of goods sold	66,800	134,400		186,800	136,800

Inventories (exercise)

• Self-Study Material (in the e-class, Chapter #7)



LO (3)

Computing Inventory and Cost of Goods Sold

Witson Boards sells snowboard. Its product, Eagle snowboard is popular among snowboard enthusiasts. Information relating to Witson's purchases of Eagle snowboards during September is shown below. Witson sold 242 Eagle snowboards in September.

Witson uses a periodic inventory system.

Date	Explanation	Units	Unit Cost	Total Cost
Sept. 1	Inventory	46	€1,067	€ 49,082
Sept. 12	Purchases	90	1,122	100,980
Sept. 19	Purchases	40	1,144	45,760
Sept. 26	Purchases	_88	1,155	101,640
	Totals	264		€297,462

^{1.} Compute the ending inventory at September 30 and cost of goods sold using the FIFO and weighted average cost formulas.

^{2.} For both FIFO and weighted average cost formulas, calculate the sum of ending inventory and cost of goods sold. What do you reveal from the answers you gave for each method?

Any Questions?

Receivable and Payable

- Accounting Principles

2022. 5.

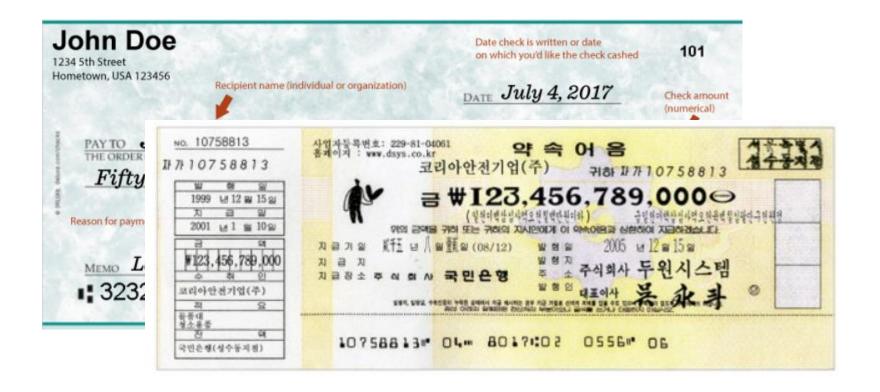
Yangin Yoon

Receivable

- Receivable
 - One type of assets
 - Claims for money, goods, or services
- Accounts Receivable
 - A current asset representing money due for services performed or me rchandise sold on credit.
- Notes Receivable
 - A contract in the form of a note received by a company and written by its customer as a result of the company's selling goods or providing se rvices to the customer on credit.

Receivable

Notes or Checks



Receivable

Example

2022.4.30.

ABC Company sold goods to XYZ Company for \$500. ABC Company accepted a 90-day, 7% note for this transaction from XYZ Company.

/- 2022.7.29.

ABC Company received cash of \$508.63 for the exchange of the note th at it received in April. >> 500 × 007 × 365

Journal Entry

2022.4.30

Note receivable	\$500	Revenue	\$500
Cost of Goods	XXX	Inventory	XXX

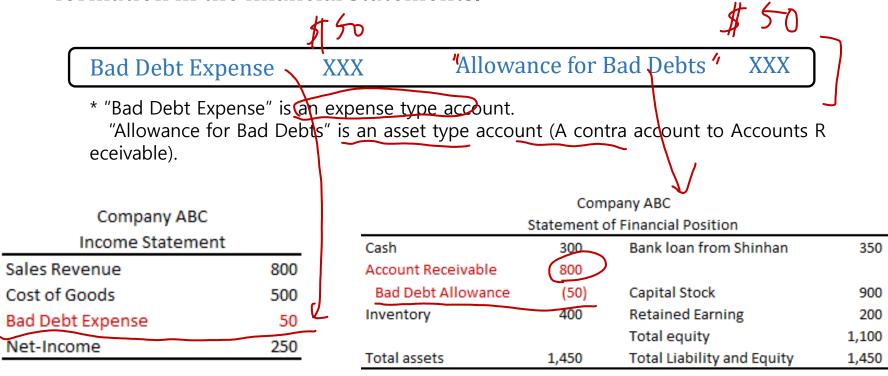
2022.7.29.

Note receivable \$508.63 \$500.00 Cash \$8.63 **Interest Income**

^{* &}quot;Interest Income" is a revenue type account.

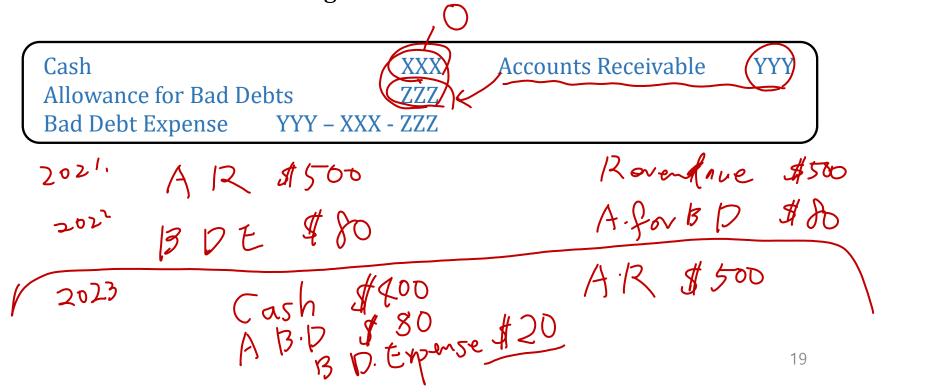
Evaluation of Receivable

- We evaluate the value of receivable periodically.
 - If a customer is broken, or in trouble, we may not receive the promise d amount of money from the customer. If so, we need to include this in formation in the financial statements.



Settlement of Receivable

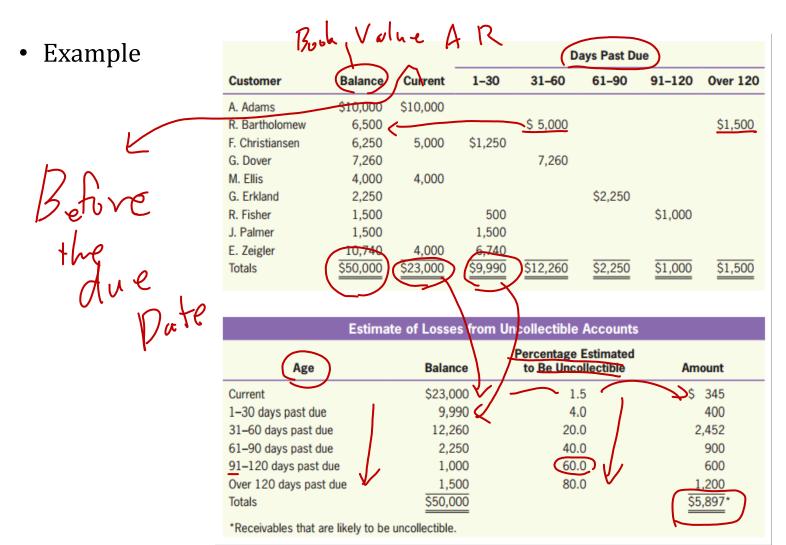
- Finally, it is settled that the account receivable is paid by cash (all, som e, or nothing).
 - If the final decision is made, we remove (derecognize) the relevant accounts from our accounting book.



Evaluation of Receivable (Aging)

- Estimating the value of accounts receivable
- Aging is one of the way to estimate the uncollectible amounts (and coll ectible amounts).
 - Each receivable is categorized by the number of days it has been outst anding (or the number of days from its due date).
 - Each total is multiplied by an appropriate uncollectible percentage. The is is based on the assumption that the older the receivable, the less like ely the company is to collect.
 - Usually, the uncollectible percentage is decided based on the kistorica l records.

Evaluation of Receivable (Aging)



Evaluation of Receivable (Aging)

								14 11 7	Wilson CD / U'/	
Customer	Balance	Current	1-30	31–60	61-90	91-120	Over 120	17 17.	Cyponse 5897	
A. Adams	\$10,000	\$10,000								_
R. Bartholomew	6,500			\$ 5,000			\$1,500		AfrBl) 5%
F. Christiansen	6,250	5,000	\$1,250						17 TO 1.) 50
G. Dover	7,260			7,260						
M. Ellis	4,000	4,000							7-	
G. Erkland	2,250				\$2,250				14167 /	
R. Fisher	1,500		500			\$1,000		a =17 + 6	ナル・/	
J. Palmer	1,500		1,500					400	1 .50	
E. Zeigler	10,740	4,000	6,740						44,107	
Totals	\$50,000	\$23,000	\$9,990	\$12,260	\$2,250	\$1,000	\$1,500	•		
	400,000		10100	. ,		-			/	
			10,000		. ,					
			70,000						npany ABC	
				ıcollectible		_		Com		
			s from Un	ncollectible	Accounts	_		Com	npany ABC	4,000
Age			s from Un		Accounts Estimated	Cash	t Receivable	Com Statement	npany ABC of Financial Position	4,000
		te of Losse	es from Un	Percentage to Be Unco	Accounts Estimated bllectible	Cash Account		Statement 300 50,000	npany ABC of Financial Position Bank loan from Shinhan	4,000
Current		Baland \$23,00	ce	ncollectible	Accounts Estimated ollectible	Cash Account	t Receivable ebt Allowand	Statement 300 50,000	npany ABC of Financial Position Bank loan from Shinhan	•
	Estima	te of Losse	ce 00 90	Percentage to Be Unco	Accounts Estimated bllectible 5	Cash Account Bad De	t Receivable ebt Allowand	Statement of 300 50,000 ce (5,897)	npany ABC of Financial Position Bank loan from Shinhan Capital Stock	90,000
Current 1–30 days past due 31–60 days past due	Estima	Baland \$23,00	ce 00 90 60	Percentage to Be Unco	Accounts Estimated ollectible 5 0	Cash Account Bad De	t Receivable ebt Allowand ory	Statement of 300 50,000 ce (5,897) 60,000	npany ABC of Financial Position Bank loan from Shinhan Capital Stock Retained Earning Total equity	90,000 10,403 100,403
Current 1–30 days past due 31–60 days past due 61–90 days past due	Estima	\$23,00 9,99	ce 00 90 60	Percentage to Be Unco	Accounts Estimated bllectible 5 0 0	Cash Account Bad Do Invento	t Receivable ebt Allowand ory	Statement of 300 50,000 ce (5,897)	npany ABC of Financial Position Bank loan from Shinhan Capital Stock Retained Earning	90,000
Current 1-30 days past due 31-60 days past due 61-90 days past due 91-120 days past du	Estima	\$23,00 9,99 12,20 2,21	ce 00 90 60 50	Percentage to Be Uncc 1. 4. 20. 40.	Accounts Estimated bllectible 5 0 0 0	Cash Account Bad Do Invento	t Receivable ebt Allowand ory sets	Statement of 300 50,000 ce (5,897) 60,000	npany ABC of Financial Position Bank loan from Shinhan Capital Stock Retained Earning Total equity	90,000 10,403 100,403
Current 1–30 days past due	Estima	\$23,00 9,99 12,20 2,21 1,00 1,50	ce 00 90 60 50 00	Percentage to Be Unco 1. 4. 20. 40. 60.	Accounts Estimated bllectible 5 0 0 0	Cash Account Bad Do Invento	t Receivable ebt Allowand ory sets	Statement of 300 50,000 ce (5,897) 60,000	npany ABC of Financial Position Bank loan from Shinhan Capital Stock Retained Earning Total equity	90,000 10,403 100,403
Current 1-30 days past due 31-60 days past due 61-90 days past due 91-120 days past du Over 120 days past d	Estima	\$23,00 9,99 12,20 2,20 1,00 1,50 \$50,00	ce 00 90 60 50 00 00	Percentage to Be Unco 1. 4. 20. 40. 60.	Accounts Estimated bllectible 5 0 0 0	Cash Account Bad Do Invento	t Receivable ebt Allowand ory sets	Statement of 300 50,000 ce (5,897) 60,000	npany ABC of Financial Position Bank loan from Shinhan Capital Stock Retained Earning Total equity	90,000 10,403 100,403

Payable and Other Liability

- Payable
 - One type of liability
 - Obligation for money, goods, or services.
- Accounts Payable
 - A current liability representing money due for <u>services received</u> or me rchandise purchased on credit.
- Advances from customers (or unearned revenue)
 - A money received but we have not provided merchandise or service to our customer
 - We will provide the merchandise or service in the future.

Bakery Case #3 (Week #1 Slides)

- AP Bakery Inc. started its business on 1st of November.
 - All transactions were made by cash.

	Nov. 1st~Nov.30th I	Dec. 1st ~ Dec. 31st	Jan. 1st ~ Jan. 3 1st
Shop rent (deposit)	1,500,000	-	-
Shop monthly rent fee	500,000	500,000	500,000
Oven, tables, and chairs purchase	8,000,000	-	-
Flour, sugar, and egg purchase	3,000,000	3,000,000	3,000,000
Number of baked muffins	10,000	10,000	10,000
Value of baked muffins	10,000,000	10,000,000	10,000,000
Number of sold muffins	8,000	9,000	9,500
Value of sold muffins	8,000,000	9,000,000	9,500,000
Electricity charge (paid on the 20th of every month)	200,000	600,000	900,000
Donation of muffins	-	-	-
Salary for Tom and Sam	2,000,000	2,000,000	2,000,000
Dividend to the shareholders		3,000,000	
Number of muffin gifticons issued			10,000
Received cash for the gifticon issuance			9,000,000
			24

Bakery Case #3 (Week #1 Slides)

- In this case, AP Bakery issued gifiticons, instead of borrowing money from a bank on Jan. 31st.
 - 1) On Feb. 1st, your cousin, Chris, said that he wanted to buy the whole AP Bakery In c. What would be the appropriate amount for this deal?
 - 2) The gifticons were non-refundable. What would be your answer to Question#1?
 - 3) The gifticons were fully refundable. What would be your answer to Question#1?
 - 4) Is the amount different from Bakery Case #2?
 - 5) AP Bakery Inc. paid its electricity bill on Jan 20th. The bill covered the period betw een Dec 15th and Jan 15th. The electricity charge between Jan. 15th and Jan. 31st w ould be 500,000 KRW.

Does this additional information change the amounts that Chris may offer?

Payable and Other Liability

Accounts Payable

- A company bought goods of \$400 on credit.

Inventory \$400 Accounts Payable \$400

- Advances from customers (or unearned revenue)
 - A company issued 100 gifticons. It received \$500 of cash from customers.

Cash	\$500	Advanced from customers	\$500

- * "Cash" is an asset type account.

 "Advanced from customers" is a liability type account ("Unearned revenue" is also liability.)
- A customer presented a gifticon. The company gave the customer the good s whose book value was \$4.

Advanced from customers	L	\$5	Revenue (7	(5)	\$5
Cost of goods		\$4	Inventory		\$4

Any Questions?

Receivable and Payable (exercise)

• Self-Study Material (in the e-class, Chapter #6)

P 6-3

Analysis of Allowance for Bad Debts

Boulder View Corporation accounts for uncollectible accounts receivable using the allowance method. As of December 31, 2016, the credit balance in Allowance for Bad Debts was \$130,000. During 2017, credit sales totaled \$10,000,000, \$90,000 of accounts receivable were written off as uncollectible, and recoveries of accounts previously written off amounted to \$15,000. An aging of accounts receivable at December 31, 2017, showed the following:

Classification of Receivable	Accounts Receivable Balance As of December 31, 2017	Percentage Estimate Uncollectible	d
Current	\$1,140,000	2%	V V
1–30 days past due	600,000	10	XY
31–60 days past due	400,000	23	11
Over 60 days past due	120,000	75	47
	\$2,260,000	26	4 80

Required:

- Prepare the journal entry to record bad debt expense for 2017, assuming bad debts are estimated using the aging of receivables method.
- Record journal entries to account for the actual write-off of \$90,000 uncollectible accounts receivable and the collection of \$15,000 in receivables that had previously been written off.

Receivable and Payable (exercise)

• Self-Study Material (in the e-class, Chapter #6)

P 6-12

Recording Notes Receivable

Wine Ltd. closes its books every month. On June 30 the Notes Receivable accounts balance is \$80,000, including the following:

Date	Maker	Face value	Term	Interest rate
May 4	KAVALAN Co.	\$16,000	50 days	8%
May 15	Glenlivet Inc.	14,000	6 months	12%
June 30	Macallan Co.	50,000	60 days	10%

Interest is computed following the practice that there are 360 days a year.

Required:

- 1. What's the maturity date of these three notes?
- Suppose that Wine Ltd. prepares financial statements as of June 30. Make the entries necessary during June. Assume KAVALAN pays the note and interest in full at the maturity date.
- Following (2), assume KAVALAN cannot pay the note and Wine Ltd. expects that there's hope for collection. Make the entry at the maturity date.
- 4. Following (2), assume KAVALAN cannot pay the note and Wine Ltd. expects that there's no hope for collection. Make the entry at the maturity date.

Any Questions?

Audit (Financial Statement Audit)

- You and your friends made Company ABC with \$80,000 of cash. You hir ed CEO, CFO, and other workers for the company. After one year, the CE O presented you the following financial statements.
- If you want to check a few things about the financial statements. What will you check?

Company ABC Statement of Financial Position				
DECEMBER 31, 2022				
Cash	6,500	Bank loan from Shinhan	10,000	
Account Receivable	50,000			
Bad Debt Allowance	(4,600)	Capital Stock	80,000	
Inventory A	40,000	Retained Earning	21,900	
Inventory B	20,000	Total equity	101,900	
Total assets	111,900	Total Liability and Equity	111,900	

Company ABC			
Income Statement			
FOR THE YEARS ENDED DECEMBER 31, 2022			
Sales Revenue	125,000		
Cost of Goods	80,000		
Bad Debt Expense	4,600		
Salary Expense	5,000		
Interest Expense	3,000		
Tax	10,500		
Net-Income	21,900		

Audit (Financial Statement Audit)

- The trusted third party (auditor) checks the financial statements.
 - Accounting information users can make a decision based on the audit ed financial statements.

REPORT OF INDEPENDENT REGISTERED PUBLIC ACCOUNTING FIRM ON CONSOLIDATED FINANCIAL STATEMENTS

To the Shareholders and Board of Directors of Korea Electric Power Corporation

Opinion on the Consolidated Financial Statements

We have audited the accompanying consolidated statements of financial position of Korea Electric Power Corporation and subsidiaries (the "Company") as of December 31, 2020 and 2021, the related consolidated statements of comprehensive income (loss), changes in equity and cash flows for each of the three years in the period ended December 31, 2021, and the related notes (collectively, the "consolidated financial statements"). In our opinion, the consolidated financial statements present fairly, in all material respects, the financial position of the Company as of December 31, 2020 and 2021, and the results of its operations and its cash flows for each of the three years in the period ended December 31, 2021, in conformity with International Financial Reporting Standards as issued by the International Accounting Standards Board.

We also have audited, in accordance with the standards of the Public Company Accounting Oversight Board (United States) (PCAOB), the Company's internal control over financial reporting as of December 31, 2021, based on criteria established in Internal Control-Integrated Framework issued by the Committee of Sponsoring Organizations of the Treadway Commission (2013 framework), and our report dated April 29, 2022 expressed an unqualified opinion thereon.

Basis for Opinion

These consolidated financial statements are the responsibility of the Company's management. Our responsibility is to express an opinion on the Company's consolidated financial statements based on our audits. We are a public accounting firm registered with the PCAOB and are required to be independent with respect to the Company in accordance with the U.S. federal securities laws and the applicable rules and regulations of the Securities and Exchange Commission and the PCAOB.

We conducted our audits in accordance with the standards of the PCAOB. Those standards require that we plan and perform the audit to obtain reasonable assurance about whether the consolidated financial statements are free of material misstatement, whether due to error or fraud. Our audits included performing procedures to assess the risks of material misstatement of the consolidated financial statements, whether due to error or fraud, and performing procedures that respond to those risks. Such

https://www.sec.gov/Archives/edgar/data/887225/000119312522132015/d276732d20f.htm#fin276732 1

Any Questions?