

P 7.44

Mat. INV	
11/1 (a)	45,400
Purchases	113,600
11/30	<u>56,400</u>

Mat. Used (b)
102,600

WIP INV	
11/1	32,600
DM	86,200
DL (c)	176,000
App. OH	264,000
(g)	<u>184,400</u>
(i)	<u>6,270</u>
	<u>\$190,670</u>

COGM
374,400

FG INV	
(e)	129,600
(f)	374,400
11/30	<u>101,000</u>
(i)	<u>3,762</u>
	<u>104,762</u>

COGS (d)
403,000

$$(a) \text{ BB Mat. INV} + 11,000 = \text{EB Mat. INV}$$

$$\text{BB} + 11,000 = 56,400$$

$$\text{BB} = \$45,400$$

$$(b) \text{ BB Mat.} + \text{Purchases} - \text{Mat. used} = \text{EB Mat.}$$

$$45,400 + 113,600 - \text{Mat. used} = 56,400$$

$$\Rightarrow \text{Mat. used} = \$102,600$$

$$\begin{array}{cc} \downarrow & \downarrow \\ \$86,200 & \$16,400 \\ \text{DM} & \text{IDM} \end{array}$$

$$(c) \text{ Mfg OH Applied} = 1.5 * \text{DL}$$

$$264,000 = 1.5 * \text{DL}$$

$$\Rightarrow \text{DL} = \$176,000$$

$$(d) \text{ Sales Revenue} = 1.8 * \text{COGS}$$

$$725,400 = 1.8 * \text{COGS}$$

$$\text{COGS} = 725,400 / 1.8$$

$$= \$403,000$$

$$(e) \text{ BB FG} = \text{EB FG} + 28,600$$

$$\text{BB} = 101,000 + 28,600$$

$$\text{BB} = \$129,600$$

$$(f) \text{ BB FG} + \text{COGM} - \text{COGS} = \text{EB FG}$$

$$129,600 + \text{COGM} - 403,000 = 101,000$$

$$\Rightarrow \text{COGM} = \$374,400$$

$$(g) \text{ EB WIP} = \text{BB WIP} + \text{Mat. used} + \text{DL used} + \text{Applied Mfg. OH} - \text{COGM}$$

$$\text{EB WIP} = 32,600 + 86,200 + 176,000 + 264,000 - 374,400$$

$$\text{EB WIP} = \$184,400$$

	Mfg. OH Control	Applied Mfg. OH		COGS
(b) IOM	<u>16,400</u>		(d)	<u>403,000</u>
(h) IOL	<u>26,000</u>	264,000	(i)	<u>15,048</u>
Dep.	48,200	25,080		<u>418,048</u>
Other	198,480			
11/30	<u>\$289,080</u>	<u>\$289,080</u> 11/30		

$$(h) \text{ Total labor cost} = \$202,000$$

$$\begin{array}{l} \downarrow \qquad \downarrow \\ \$176,000 \quad \$26,000 \\ \text{from (c)} \quad \text{DL} \qquad \text{IOL} \end{array}$$

$$(i) \begin{array}{l} \text{WIP} \quad 6,270 \quad (0.25 \times 25,080) \\ \text{FG} \quad 3,762 \quad (0.15 \times 25,080) \\ \text{COGS} \quad 15,048 \quad (0.60 \times 25,080) \\ \text{Applied Mfg. OH} \quad 25,080 \end{array}$$