개정일자:

#### LGCWA #5 LEAK DETECTOR Maintenance Manual

표준번호 :

Rev. : **1.0** 

() LG화학 / 전지사업본부	Grease Lubrication Map	RE Date	Oct. 01, 2018

				Equipment Deta	ils		Lub	Lubr	cation Base			
N.			Subject	Target of Inspection	Checking Point	Q'ty [EA]	rica tion Cyc le (m o.)	Lubricant		Lead Time (min. )		
1	LEA DETE OR(Lo r Pa	ECT owe	Equip. Service	LM GUIDE	4 sections	4X6	1	AFF	Until finding Grease from the NEEDLE	10	1	Lubrication GUN

개정일자:

#### LGCWA #5 LEAK DETECTOR Maintenance Manual

표준번호 :

Rev. : **1.0** 

🕞 LG화학 / 전지사업본부	Grease Lubrication Map	RE Date	Oct. 01, 2018

			Equipment Deta	ils		Lub		cation Base			
N:		Subject	Target of Inspection	Checking Point	Q'ty [EA]	rica tion Cyc le (m o.)	Lubricant	Lubrication Amount	Lead Time (min. )	Requ ired Staff (pers on)	1001
1	CELL OUT TRANSF ER	Equip. Service	LM GUIDE 1 section 1 1		1		Until finding Grease from the NEEDLE	10	1	Lubrication GUN	

개정일자:

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🕞 LG화학 / 전지사업본부	Grease Lubrica	tion Map	RE Date		Oct. 01, 2018	
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			Equipment Deta	ils		Lub		cation Base			
No	Div.	Subject	Target of Inspection	Checking Point	Q'ty [EA]	rica tion Cyc le (m o.)	Lubricant	Lubrication Amount	Lead Time (min. )	Requ ired Staff (pers on)	Tool (set)
1	CELL OUT CONVEY OR	Equip. Service	SHAFT rotating part (BEARING HOUSING)	SHAFT rotating part (BEARING 1 section 2 6		AFF	Until finding Grease from the NEEDLE	10	1	Lubrication GUN	
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개정일자:

표준번호 :

Rev. : **1.0** 

🕞 LG화학 / 전지사업본부	Grease Lubrication Map	RE Date	Oct. 01, 2018

			Equipment Deta	ils		Lub		cation Base			
No	Div.	Subject	Target of Inspection	Checking Point	Q'ty [EA]	rica tion Cyc le (m o.)	Lubricant		Lead Time (min. )	Requ ired Staff (pers on)	Tool (set)
1	NG Ejection	Equip. Service	LM GUIDE	1 section	1	1		Until finding Grease from the NEEDLE	10	1	Lubrication GUN



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Rev. : 1.0

# CH 3. Five Types of Equipment Map Article 2. Defect Map 3.2.1 LEAK DETECTOR

<Instructions>

개정일자:

- After marking Defective Spot & the Detailed Defective Spot in the Equipment Layout as the form below, fill in the form in a table.

🕕 LG화학 / 전지사업본부	Defect Map	RE Date	Oct. 01, 2018

No	Proces s	Equip. Name	Unit Name	Part Name	Defe ctiv e Spot	Derective spot Details	Materia I	Expected Problem	Cause of Defect	Impact	Estimate d Time for Replace ment	Delate	Level of Signific ance	Improvements	Comp	nt	Periodi cal Inspec tion
1	LGCWA #5	LEAK DETECTO R	CELL IN P&P	CABLEVEYOR	1	Cableveyor & Guide Rail Contact Part	Nylon Frame	Operation in the instrument part is not working smoothly pecause of the defect in the Cableveyor.	fricti on	L	3		L	Visual Maintenance after Eye-Mark	Y	1 day	frict ion
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Rev. : 1.0

# CH 3. Five Types of Equipment Map Article 2. Defect Map 3.2.1 LEAK DETECTOR

<Instructions>

개정일자:

- After marking Defective Spot & the Detailed Defective Spot in the Equipment Layout as the form below, fill in the form in a table.

🕕 LG화학 / 전지사업본부	Defect Map	RE Date	Oct. 01, 2018

No	Proces s	Equip. Name	Unit Name	Faithailte	Defe ctiv e Spot		Materia I	Expected Problem	Cause of Defect	Impact	Estimate d Time for Replace ment	Pointo	Level of Signific ance	Improvements	otion	Freque nt Inspec tion	Periodi cal Inspec tion
1	LGCWA #5	LEAK DETECTO R	CELL IN TRANSFER	CABLEVEYOR	1	Cableveyor & Guide Rail Contact Part	Frame	Operation in the instrument part is not working smoothly pecause of the defect in the Cableveyor.	fricti on	L	3		L	Visual Maintenance after Eye-Mark	Y	1 day	frict ion



발행일자:	2018.	10.	12
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Rev. **1.0** 

# CH 3. Five Types of Equipment Map Article 2. Defect Map 3.2.1 LEAK DETECTOR

<Instructions>

개정일자:

- After marking Defective Spot & the Detailed Defective Spot in the Equipment Layout as the form below, fill in the form in a table.

🕞 LG화학 / 전지사업본부	Defect Map	RE Date	Oct. 01, 2018

No	Proces s	Equip. Name	Name	Part Name	Defe ctiv e Spot	Derective spot Details	Materia I	Expected Problem	Cause of Defect	Impact	Estimate d Time for Replace ment	Dointo	Level of Signific ance	Improvements	oompi	Freque nt Inspec tion	Periodi cal Inspec tion
1	LGCWA #5	LEAK DETECTO R	LEAK DETECTOR (Upper Part)	CABLEVEYOR	1	Cableveyor & Guide Rail Contact Part	Nylon Frame	Operation in the instrument part is not working smoothly pecause of the defect in the Cableveyor.	fricti on	L	3		L	Visual Maintenance after Eye-Mark	Y	1 day	frict ion
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Rev. : 1.0

# CH 3. Five Types of Equipment Map Article 2. Defect Map 3.2.1 LEAK DETECTOR

<Instructions>

- After marking Defective Spot & the Detailed Defective Spot in the Equipment Layout as the form below, fill in the form in a table.

🕕 LG화학 / 전지사업본부	Defect Map	RE Date	2018.07.14

No	Proces s	Equip. Name	Unit Name	Part Name	Defe ctiv e Spot		Materia I		Cause of Defect		Estimate d Time for Replace ment	Level of Signific ance	Improvements			Periodi cal Inspec tion
1	LGCWA #5	LEAK DETECTO R	CELL OUT TRANSFER	CABLEVEYOR	1	Cableveyor & Guide Rail Contact Part	Nylon Frame	Operation in the instrument part is not working smoothly pecause of the defect in the Cableveyor.	fricti on	L	3	L	Visual Maintenance after Eye-Mark	Y	1 day	frict ion
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발행일자:	2018.	10.	12
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Rev. : 1.0

# CH 3. Five Types of Equipment Map Article 2. Defect Map 3.2.1 LEAK DETECTOR

<Instructions>

개정일자:

- After marking Defective Spot & the Detailed Defective Spot in the Equipment Layout as the form below, fill in the form in a table.

🕕 LG화학 / 전지사업본부	Defect Map	RE Date	2018.07.14

No	S	Equip. Name	Name	Part Name	Defe ctiv e Spot		Materia I	Expected Problem	Cause of Defect	Impact	Estimate d Time for Replace ment	Delate	Level of Signific ance	Improvements	Compl etion Y/N	Freque nt Inspec tion	Periodi cal Inspec tion
1	LGCWA #5	LEAK DETECTO R	NG Ejection	CABLEVEYOR	1	Cableveyor & Guide Rail Contact Part	Nylon Frame	Operation in the instrument part is not working smoothly pecause of the defect in the Cableveyor.	fricti on	L	3		L	Visual Maintenance after Eye-Mark	Y	1 day	frict ion
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Rev. 1.0

# CH 3. Five Types of Equipment Map Article 3. Vibration Source Map 3.3.1 LEAK DETECTOR

<Instructions>

개정일자:

- After marking Vibration Source & the Detailed Vibration Section in the Equipment Layout as the form below, fill in the form in a table.

Vibration Source Map	RE Date	2018.07.14

		Equip. Name	Unit Name		Vibrat ion Sourc e Secti on	Vibration Source Section Details		Cause of Vibrati on Sourc e	Impact	Estimate d Time for Replace ment	Points	Level of Signifi cance		Compl etion Y/N		Periodi cal Inspect ion
1	LGCWA #5	LEAK DETECTOR	CELL IN P&P	Driving MOTOR	1		Unable to transfer CELL because of the defect in the MOTOR	MOTOR Driving	Equipmen t Defect	10 min.		М	Visual Maintenance after Eye-Mark	Y	Once/ 6M	Once/ 6M
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Rev. : 1.0

# CH 3. Five Types of Equipment Map Article 3. Vibration Source Map 3.3.1 LEAK DETECTOR

<Instructions>

개정일자:

- After marking Vibration Source & the Detailed Vibration Section in the Equipment Layout as the form below, fill in the form in a table.

	Vib	ration Source Map	RE Date	2018.07.14

	l Proc ess	Equip. Name	Unit Name	Part Name	Vibrat ion Sourc e Secti on	Vibration Source Section Details		Sourc e	Impact	Estimate d Time for Replace ment	Points	Level of Signifi cance	Improvements	Compl etion Y/N	Freque nt Inspect ion	Periodi cal Inspect ion
1	LGCWA #5	LEAK DETECTOR	CELL IN CONVEYOR		1		Unable to transfer CELL because of the defect in the MOTOR	MOTOR Driving	Equipmen t Defect	10 min.		М	Visual Maintenance after Eye-Mark	Y	Once/ 6M	Once/ 6M
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Rev. **1.0** 

## CH 3. Five Types of Equipment Map Article 3. Vibration Source Map 3.3.1 LEAK DETECTOR

<Instructions>

개정일자:

- After marking Vibration Source & the Detailed Vibration Section in the Equipment Layout as the form below, fill in the form in a table.

Vibration Source Map	RE Date	2018.07.14

	N Pr		Equip. Name			Vibrat ion Sourc e Secti on	Vibration Source Section Details	Expected Problem	Sourc e	Impact	Estimate d Time for Replace ment	Points	Level of Signifi cance	Improvements	Compl etion Y/N	nt	Periodi cal Inspect ion
1		CWA 5	LEAK DETECTOR	CELL IN TRANSFER	Driving MOTOR	1		Unable to transfer CELL because of the defect in the MOTOR	MOTOR Driving	Equipmen t Defect	10 min.		М	Visual Maintenance after Eye-Mark	Y	Once/ 6M	Once/ 6M



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Rev. **1.0** 

# CH 3. Five Types of Equipment Map Article 3. Vibration Source Map 3.3.1 LEAK DETECTOR

<Instructions>

개정일자:

- After marking Vibration Source & the Detailed Vibration Section in the Equipment Layout as the form below, fill in the form in a table.

	Vibration Source Map	RE Date	2018.07.14
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	l Proc ess	Equip. Name	Unit Name		Vibrat ion Sourc e Secti on	Vibration Source Section Details		Cause of Vibrati on Sourc e	Impact	Estimate d Time for Replace ment	Points	Level of Signifi cance	Improvemente	Compl etion Y/N	nt	Periodi cal Inspect ion
1	LGCWA #5	LEAK DETECTOR	CELL OUT TRANSFER	Driving MOTOR	1		Unable to transfer CELL because of the defect in the MOTOR	MOTOR Driving	Equipmen t Defect	10 min.		М	Visual Maintenance after Eye-Mark	Y	Once/ 6M	Once/ 6M



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Rev.

## CH 3. Five Types of Equipment Map Article 3. Vibration Source Map 3.3.1 LEAK DETECTOR

<Instructions>

개정일자:

- After marking Vibration Source & the Detailed Vibration Section in the Equipment Layout as the form below, fill in the form in a table.

	Vibration Source Map				2018.07.14
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		Equip. Name	Unit Name	Name	Vibrat ion Sourc e Secti on	Vibration Source Section Details		Sourc e	Impact	Estimate d Time for Replace ment	Points	Level of Signifi cance		Compl etion Y/N	Freque nt Inspect ion	Periodi cal Inspect ion
1	LGCWA #5	LEAK DETECTOR	CELL OUT CONVEYOR	Driving MOTOR	1		Unable to transfer CELL because of the defect in the MOTOR	MOTOR Driving	Equipmen t Defect	10 min.		М	Visual Maintenance after Eye-Mark	Y	Once/ 6M	Once/ 6M
L																



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Rev. : 1.0

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개정일자:

- After marking Vibration Source & the Detailed Vibration Section in the Equipment Layout as the form below, fill in the form in a table.

Vibration Source Map	RE Date	2018.07.14

		Equip. Name	Unit Name	Part	Vibrat ion Sourc e Secti on		Sourc e	Impact	Estimate d Time for Replace ment	Points	Level of Signifi cance	Improvements	Compl etion Y/N	nt	Periodi cal Inspect ion
1	LGCWA #5	LEAK DETECTOR	NG Ejection	Driving MOTOR	1	Unable to transfer CELL because of the defect in the MOTOR	MOTOR Driving	Equipmen t Defect	10 min.		М	Visual Maintenance after Eye-Mark	Y	Once/ 6M	Once/ 6M
L															

