

TOWER 44			
EMPLOYER DN2 SAL / MI REAL ESTATE	ENGINEER DG JONES	LEAD CONSULTANT SARKIS AZADIAN	CONTRACTOR KFOURY KEC
Taking Over Certificate (TOC)			


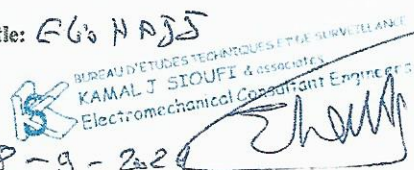
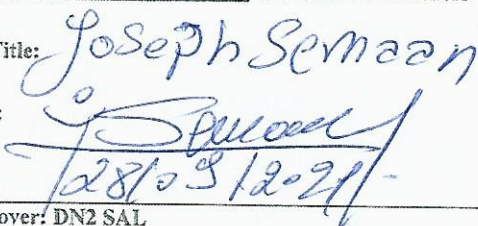
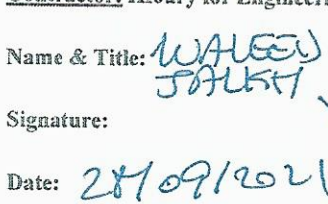
- Description of the works:** Tower 44 - Substantial Completion
- Date of possession:** 31 August 2021
- Defects and Liability period:** DLP is 365 days from the date of issuance of this TOC
- P-TOC- References:** Refer to attached list of P-TOC's which contains all related FIR's for all related Trades
- Area/ section/ part:** Whole of the Works
Except: Refer to Annex A
- List of outstanding Works and snags:** Outstanding Works and snags are listed and stated on the Fir's enclosed to their related P-TOC's, which are attached to this TOC as ANNEX B, C, D, E, F, G & H

Reference to Partial Taking over Certificates (Annex A), the Engineer Certifies hereby the substantial completion of the works in **Tower 44** in accordance with Sub-Clause 48.1 of the Conditions of Contract Agreement, which is to be read in conjunction of Sub-Clauses 2.1, 2.1.1, 2.1.2 and 2.1.3 of addendum 02 made on 30 September 2020.

THE ENGINEER HEREBY CERTIFIES that upon the Consultants inspections of the works, they have found the whole of the permanent Works mentioned earlier have been substantially completed with outstanding works and snags which are attached in attached ANNEXES mentioned earlier and attached to Letter No. JS/PM/2015-10/KEC/510 dated 31 August 2021.

The Contractor hereby undertakes to remain responsible for any defects or faults in the executed works during defects liability period and to complete outstanding works and snags listed in the ANNEXES referred to earlier and attached to Letter No. JS/PM/2015-10/KEC/510 dated 31 August 2021 in accordance with Sub-Clause 49.2 of the Conditions of Contract Agreement.

Furthermore, all related additional charges for the time that will be spent, by the Engineer, on inspecting the snags of the FIR's enclosed and any outstanding Works are to be borne by the Contractor pursuant to Sub-Clause 60.3 of the Conditions of Contract Agreement.

Lead Consultant: Sarkis Azadian Architects (SAA) Name & Title: Elie Banna Signature:  Date: 28-09-2021	MEP Consultant: Kamal Sioufi Office Name & Title: EG's NADJ Signature:  Date: 28-9-2021
Project Management (the Engineer): DG Jones & Partners Name & Title: Joseph Seman Signature:  Date: 28/09/2021	Contractor: Kfoury for Engineering & Contracting (KEC) Name & Title: WALEED JALAKH Signature:  Date: 28/09/2021
The Employer: DN2 SAL Name: Date:	Signature: Date:

ANNEX A
List of Works to be Completed on Tower 44

1. General Works

- 1.1. All Comments, snags and outstanding Works stated in all Partial taking over Certificates P-TOC transmitted and/or under review and shall be transmitted to KEC, and which are related to areas and/or MEP systems;
- 1.2. All consultant's comments on Filed Inspection requests related to every trade that has NOT been yet submitted by the Contractor as substantially completed;
- 1.3. Waterproofing treatment in all basements to be observed for any potential future remedies;
- 1.4. Connection between ATS and Stores (apartments and offices owners) to be completed;
- 1.5. Control head for FM200 stolen in basements (7 pieces) to be procured and installed;
- 1.6. Stolen Mixer in Apartments (44 pieces) to be procured and installed;
- 1.7. Stolen Earth Cable in Technical Floor 13 to be procured and installed;
- 1.8. Temporary MEP connection Cables, Conduits, Pipes are to be dismantled
- 1.9. Demobilization of Site Offices Porta Cabins of all entities located on Shops Upper slabs.

2. Documents to be submitted

- 2.1. Hard and Soft Copies of AS Built drawings;
- 2.2. Hard and Soft Copies of Operation and Maintenance Manuals;
- 2.3. Discharge letters of all Subcontractors and specialist;
- 2.4. Letter of warranties beside the ones in their related O&M. Such as Waterproofing, glass and aluminum façade....
- 2.5. NCR and PCM logs are to be closed;
- 2.6. Training sheets log and original copies.
- 2.7. Spare Parts list of all trades (Tiles, lighting, glass...).

3. Tests to be performed

- 3.1. Generators particles emission tests to be conducted;
- 3.2. Blower tests for apartments if still required by LEED;
- 3.3. Experimental inspection to ensure no wind infiltration from MEP penetration to apartments' façade in case still existing;
- 3.4. Elevators E, F, G, H testing and commissioning after water leakage damages remedies by Apave.
- 3.5. Waterproofing and tightness tests for façade from floor 25 till roof (corner of apartments 3) to be conducted;

4. Works to be completed

4.1. Basement 4

- 4.1.1. FAR to be submitted for finishes outstanding works;
- 4.1.2. Gray water treatment plant warranty and commissioning date to be novated from Climtech/KEC to DN2 /Aquarius that Operation and DLP starts from the date of tenants occupancy number allows its operation;

4.2. Basement 3

- 4.2.1. FAR resubmittals for 22 Stores (cluster store) and fuel room

4.3. Basement 1

- 4.3.1. Zone D under KEC as Logistic Area. To be completed and handed over
- 4.3.2. Storages Works MEP as per SI-LOI-003 & RVO-LOI-024
- 4.3.3. Additional MEP Works for 15 Storages and corridors;
- 4.3.4. Garbage Room Civil and MEP Works
- 4.3.5. Rerouting and extension of MEP provisions for Closed basements shop RFI-GE-173, (7,8,9,10,32,37)
- 4.3.6. Storages No. 033 & 042 used as Stores by KEC to be handed over
- 4.3.7. ATS rooms FAR and FMEP to be submitted
- 4.3.8. EDL ROOM FAR and FMEP to be submitted
- 4.3.9. Lobbies A Residential and offices are under KEC liability for circulation of Labors. To be completed and handed over.
- 4.4. Ground Floor and Podium
 - 4.4.1. Glass stick system and Aluminum of shops. Submit substantial completion;
 - 4.4.2. Shops 7 & 10 submit FAR
 - 4.4.3. Relocation of one guard booth upon Employer decision to Side Walk facing SGBL
 - 4.4.4. Pedestrian Canopies Offices installation after permit and/or on Employer instruction;
 - 4.4.5. List of RVO-LOI- the list referred to in the construction agreement dated 21 June 2021;
 - 4.4.6. CCTV and Brackets installation and inspection;
- 4.5. Mezzanine F1 and First Floor
 - 4.5.1. Lobbies FAR & FMEP to be submitted. (after completion of commercial RVO in case Employer decision to execute them);
- 4.6. Offices
 - 4.6.1. FAR & FMEP of Lobbies Offices from Floor 02 to Floor 12 and their technical areas to be completed during DLP due to office modifications fitout unless the Employer instructs otherwise;
 - 4.6.2. Remaining 16 offices. Submit their FAR or Ifedit estilem from tenants.
 - 4.6.3. Modifications of Balcony closure;
 - 4.6.4. Additional Push out windows to be installed in remaining offices.
- 4.7. Technical Floor F13
 - 4.7.1. Kids Compensation tank cover
 - 4.7.2. Submittal of inspection of galvanized sheets bottom, vertical and upper of internal façade.
- 4.8. Terraces F25 & F33
 - 4.8.1. Submit FAR and FMEP
- 4.9. From Floor 14 to Floor 39
 - 4.9.1. PVC Deck for Kids Terrace pools
 - 4.9.2. Speaker on kids terrace to be installed
 - 4.9.3. Cameras inside Gym and Kids and terraces with brackets to be installed;
 - 4.9.4. Light of Bollards Awaiting Hilights supply from Italy for Terraces kids and gym
 - 4.9.5. Installation of shower in overflow pool and kids pool after Consultant selection of type
 - 4.9.6. Modified apartments
 - 4.9.7. Remaining Lobbies FAR & FMEP from floor 35 to F39 to be submitted
 - 4.9.8. Remaining modified apartments refer to list attached to TOC

4.9.9. Fire seal doors, mixers of kitchen and P Traps

4.10. From Floor 40 to Floor 44

4.10.1. Lobbies on Hold as per Employer instructions. Status (1st coat of paint, false ceiling, MEP 2nd fix are completed)

4.10.2. Apartments 4007 & 08 and 4107 & 08 are modified

4.10.3. Remaining apartments Core and Shell. FMEP and FAR to be submitted

5. **Stairs**

5.1. Main Core Stair (MST) Tower

5.1.1. Basement 3 till Floor 44 1st coat completed;

5.1.2. Remaining works from Basement 3 to F44, stair epoxy, handrails and last coat of paint for walls are to be completed;

5.2. FST1, FST2 Tower

5.2.1. From Basement 3 to F44 completed. To submit substantial Completion for snags

5.3. FST3 & FST4 Tower

5.3.1. From GF to F13 completed. To submit substantial Completion for snags

5.4. PST1 Podium

5.4.1. Basement 3 & 2 handed over to SGBL;

5.4.2. Basement 1 to Mezzanine paint and touch ups. To submit Substantial Completion for snags

5.5. PST2 Podium

5.5.1. Basement 3 to Podium completed. To submit Substantial Completion

5.6. PST3 Podium

5.6.1. Basement 4 to Podium Completed. To submit Substantial Completion

5.7. PST4 Podium

5.7.1. Basement 3 to Podium completed. To submit substantial Completion

5.8. PST5 Podium

5.8.1. Handed Over from B3 to B2 to SGBL

5.8.2. From Basement 1 till podium, final coat and touch ups. To submit substantial Completion

5.9. PST6 Podium

5.9.1. Basement 3 to Podium, handed over to SGBL.

6. **Elevators**

6.1. Remedy and completion of damages of Elevators (E,F,G& H);

6.2. Installation of Works station and connection of E Link

6.3. Elevator A & I are being used as conveying system for labors and logistics for fitout works. To be completed and handed over;

6.4. Elevators J, K, L, M, N, O indicators in floor Lobbies are to be installed;

6.5. AC for residential Elevators are to be installed

6.6. UPS for Elevators which have been requested recently by the Employer

SN	FORM TYPE	REF NO	SUBJECT	Issued to KEC	Letter Ref	Remarks
1	P-TOC	001	Basement 02 - part	05/05/2021	JS/NH/2015-10/KEC/493	Contains Outstanding Works and Snags
2	P-TOC	002	Offices	05/05/2021	JS/NH/2015-10/KEC/494	Contains Outstanding Works and Snags
3	P-TOC	003	Basement 03 & Storages	05/05/2021	JS/NH/2015-10/KEC/499	Contains Outstanding Works and Snags
4	P-TOC	004	Basement 01	05/05/2021	JS/NH/2015-10/KEC/500	Contains Outstanding Works and Snags
5	P-TOC	005	Offices	15/05/2021	JS/NH/2015-10/KEC/501	Contains Outstanding Works and Snags
6	P-TOC	006	Envelop Unitized Façade	22/06/2021	JS/NH/2015-10/KEC/502	Contains Outstanding Works and Snags
7	P-TOC	007	41 Shops core & Shell (CIVIL,MEP,ALU)	22/06/2021	JS/NH/2015-10/KEC/503	Contains Outstanding Works and Snags
8	P-TOC	008	Main Lobbies (Residential & Offices)	29/07/2021	JS/NH/2015-10/KEC/505	Contains Outstanding Works and Snags
9	P-TOC	009	133 Apartments	09/07/2021	JS/NH/2015-10/KEC/506	Contains Outstanding Works and Snags
10	P-TOC	010	Louvers & Perforated sheets	09/07/2021	JS/NH/2015-10/KEC/507	Contains Outstanding Works and Snags
11	P-TOC	011	GF (Podium) External Works	09/07/2021	JS/NH/2015-10/KEC/508	Contains Outstanding Works and Snags
12	P-TOC	012	GYM & KIDS Areas	09/07/2021	JS/NH/2015-10/KEC/509	Contains Outstanding Works and Snags
13	P-TOC	013	Towers Lobbies till floor 32 (Part 1)		JS/NH/2015-10/KEC/511	To be issued by Engineer
14	P-TOC	014	MEP Systems and Works		JS/NH/2015-10/KEC/512	To be issued by Engineer
16	P-TOC	015	BMU		JS/NH/2015-10/KEC/513	To be issued by Engineer
17	P-TOC	016	Tower Stairs Finishing and MEP			To be submitted by Contractor
18	P-TOC	017	Remaining Towers Lobbies of apartments and Offices			To be submitted by Contractor
19	P-TOC	019	Envelop Stick Systems of Shops			To be submitted by Contractor
20	P-TOC	020	Water feature Cascade and Swimming Pools			To be submitted by Contractor
21	P-TOC	021	Apartments Core and Shell From floor 40 to 44			To be submitted by Contractor
22	P-TOC	022	Elevators Apave and Consultants' comments including Damages remedy of E, F, G, H			To be submitted by Contractor
23	TOC		Taking Over Certificate of Tower 44		JS/NH/2015-10/KEC/510	

ATTACHED TO TOC
ANNEX C

MEP SYSTEMS - Tracking Sheet

APPROVED
APPROVED AS NOTED
Revise and Resubmit
Not Approved

TO SUBMIT BY KEC
Submitted by KEC

TOWER 44

MEP Systems Tracking sheet

Date:

17/08/2021

s/n		As Built Drawings (Soft)	As Built Drawings (Hard)	Operation & Maintenance Manuals (SOFT)	Operation & Maintenance Manuals (HARD)	Testing & Commissioning (T&C) Certificates	Warranty	List of Spare Parts	Spare Parts ON SITE	Training	Supplier	REMARKS
4	public address			DS-OM-016-B		P-Toc-014	Refer to O&M	N/A - Refer Consultants specs	N/A - Refer Consultants specs	TAS-020	Refer to O&M	
5	Central Battery (CBS)			DS-OM-017-B		P-Toc-014	Refer to O&M	N/A - Refer Consultants specs	N/A - Refer Consultants specs		Refer to O&M	
6	UPS			DS-OM-012-B		P-Toc-014	Refer to O&M	N/A - Refer Consultants specs	N/A - Refer Consultants specs		Refer to O&M	
7	CO System			DS-OM-010-B		P-Toc-014	Refer to O&M	N/A - Refer Consultants specs	N/A - Refer Consultants specs	TAS-015	Refer to O&M	
8	Billing System			DS-OM-013-B		P-Toc-014	Refer to O&M	N/A - Refer Consultants specs	N/A - Refer Consultants specs		Refer to O&M	
9	Fire Alarm System (including fire alarm panels, voice evacuation systems, smoke and heat detectors, etc)			DS-OM-016-B / DS-OM-018-B		P-Toc-014	Refer to O&M	N/A - Refer Consultants specs	N/A - Refer Consultants specs	TAS-013 / TAS-020	Refer to O&M	
10	BMS			DS-OM-011-A		P-Toc-014	Refer to O&M	N/A - Refer Consultants specs	N/A - Refer Consultants specs	TAS-014	Refer to O&M	
11	Generator Plant Room			DS-OM-001-B		P-Toc-014	Refer to O&M	N/A - Refer Consultants specs	N/A - Refer Consultants specs	TAS-004	Refer to O&M	
12	Videophone			DS-OM-002-C		P-Toc-014	Refer to O&M	N/A - Refer Consultants specs	N/A - Refer Consultants specs	TAS-021	Refer to O&M	
13	Telephone			DS-OM-003-A		P-Toc-014	Refer to O&M	N/A - Refer Consultants specs	N/A - Refer Consultants specs	TAS-019	Refer to O&M	
14	Facade Lighting	Refer to Perforated sheet ABDS		N/A (Method statement for maintenance)	N/A (Method statement for maintenance)	P-Toc-014	TBA	N/A - Refer Consultants specs	N/A - Refer Consultants specs		Refer to O&M	
15	Landscape lighting			Refer to Material submittal (Method statement for maintenance)	Refer to Material submittal (Method statement for maintenance)	P-Toc-014	TBA	2 Light Bollards	2 Light Bollards		Refer to O&M	
16	Aviation Light (AWL System)	ABDS LOCATION TO BE SUBMITTED (SUBMITTED AS SDS)		DS-OM-024-B		P-Toc-014	Refer to O&M	N/A - Refer Consultants specs	N/A - Refer Consultants specs		Refer to O&M	
17	CCTV			DS-OM-021-B		P-Toc-014	To be Updated as per approval of the System	N/A - Refer Consultants specs	N/A - Refer Consultants specs		Refer to O&M	
18	Earthing & Lightning			N/A	N/A	P-Toc-014	N/A	N/A	N/A	TAS-024	Refer to O&M	
19	Fire Fighting Pumps			DS-OM-020-B		P-Toc-014	Refer to O&M	N/A	N/A	TAS-012	Refer to O&M	
20	Fans (Ventilation layout)			DS-OM-023-A		P-Toc-014	Refer to O&M	N/A - Refer Consultants specs	N/A - Refer Consultants specs	TAS	Refer to O&M	
21	FM 200			DS-OM-005-B		P-Toc-014	Refer to O&M	N/A - Refer Consultants specs	N/A - Refer Consultants specs	TAS-010	Refer to O&M	

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Date:

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s/n		As Built Drawings (Soft)	As Built Drawings (Hard)	Operation & Maintenance Manuals (SOFT)	Operation & Maintenance Manuals (HARD)	Testing & Commissioning (T&C) Certificates	Warranty	List of Spare Parts	Spare Parts ON SITE	Training	Supplier	REMARKS
22	Pumps			DS-OM-004-B		P-Toc-014	Refer to O&M	N/A - Refer Consultants specs	N/A - Refer Consultants specs	TAS-011	Refer to O&M	
23	Water treatment Plant			DS-OM-006-B		P-Toc-014	To be novated from Climtech to DN2 considering the date of commissioning	N/A - Refer Consultants specs	N/A - Refer Consultants specs	TAS-007 / TAS-008	Refer to O&M	
24	Gas System			DS-OM-015-B		P-Toc-014		N/A - Refer Consultants specs	N/A - Refer Consultants specs	TAS-018	Refer to O&M	
25	Irrigation System			TBD		P-Toc-014		N/A - Refer Consultants specs	N/A - Refer Consultants specs		Refer to O&M	
26	Water Supply			N/A	N/A	P-Toc-014	N/A	N/A - Refer Consultants specs	N/A - Refer Consultants specs	Refer to Pumps	Refer to O&M	
27	Heating Layout			N/A	N/A	P-Toc-014	N/A	N/A - Refer Consultants specs	N/A - Refer Consultants specs	N/A	Refer to O&M	
28	Toilet detail			N/A	N/A	P-Toc-014	N/A	N/A - Refer Consultants specs	N/A - Refer Consultants specs	N/A	Refer to O&M	
29	Lighting layout			N/A	N/A	P-Toc-014	N/A	N/A - Refer Consultants specs	N/A - Refer Consultants specs	N/A	Refer to O&M	
30	Power layout (MDB,SDB, PANEL BOARDS,UNITS AND PUBLIC AREA)			DS-OM-027-A		P-Toc-014		N/A - Refer Consultants specs	N/A - Refer Consultants specs		Refer to O&M	
31	Low current layout			Refer to each systems	Refer to each systems	P-Toc-014	Refer to each systems	N/A - Refer Consultants specs	N/A - Refer Consultants specs	Refer to systems	Refer to O&M	
32	ATS					P-Toc-014		N/A - Refer Consultants specs	N/A - Refer Consultants specs		Refer to O&M	
33	Shaft(Tower main shaft, office shaft, mechanical and electrical shaft)			N/A	N/A	P-Toc-014	N/A	N/A - Refer Consultants specs	N/A - Refer Consultants specs	N/A	Refer to O&M	
34	Totalizing room					P-Toc-014	-	N/A - Refer Consultants specs	N/A - Refer Consultants specs	Refer to generator	Refer to O&M	
35	MDF&GSM ROOM			N/A	-	P-Toc-014	N/A	N/A - Refer Consultants specs	N/A - Refer Consultants specs	N/A	Refer to O&M	
36	Electrical Guard room			N/A	-	P-Toc-014	Refer to each system	N/A - Refer Consultants specs	N/A - Refer Consultants specs	N/A	Refer to O&M	
37	Electrical Command center			N/A	-	P-Toc-014	Refer to each System	N/A - Refer Consultants specs	N/A - Refer Consultants specs	Refer to systems	Refer to O&M	
38	Actuators and valves	REFER TO MEP ABDS DWG		DS-OM-007-A		P-Toc-014	To be Updated as per approval of the System	N/A - Refer Consultants specs	N/A - Refer Consultants specs	refer to systems	Refer to O&M	
39	Wiring device	REFER TO MEP ABDS DWG		DS-OM-014-A		P-Toc-014	Date to be specified on the warranty	N/A - Refer Consultants specs	N/A - Refer Consultants specs	refer toi systems	Refer to O&M	

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s/n		As Built Drawings (Soft)	As Built Drawings (Hard)	Operation & Maintenance Manuals (SOFT)	Operation & Maintenance Manuals (HARD)	Testing & Commissioning (T&C) Certificates	Warranty	List of Spare Parts	Spare Parts ON SITE	Training	Supplier	REMARKS
40	GAS BOILER			DS-OM-008-B		P-Toc-014	To be Updated as per approval of the System	N/A - Refer Consultants specs	N/A - Refer Consultants specs	TAS-006	Refer to O&M	
41	VFD	TBA	TBA	DS-OM-019-A		P-Toc-014	To be Updated as per approval of the System	N/A - Refer Consultants specs	N/A - Refer Consultants specs		Refer to O&M	
42	Samsung VRF&D systems			DS-OM-026-A		P-Toc-014	Refer to O&M	N/A - Refer Consultants specs	N/A - Refer Consultants specs	TAS-005	Refer to O&M	
43	Balcony closure	Refer to Modified apartments ASBUILT list attached to TOC	DS-OM-030-A	DS-OM-030-A		P-Toc-014	N/A	N/A - Refer Consultants specs	N/A - Refer Consultants specs	Refer to Method statement	Refer to O&M	
44	Diesel Tanks			Refer to Generator plant room	Refer to Generator plant room	P-Toc-014	Refer to Generator plant	N/A - Refer Consultants specs	N/A - Refer Consultants specs	refer to generator	Refer to O&M	
45	GRP-Tanks (Upper Technical Floor)			DS-OM-009-A		P-Toc-014	Refer to O&M	N/A - Refer Consultants specs	N/A - Refer Consultants specs	N/A	Refer to O&M	
46	Drainage System	EXCEPT ABDS-ME-001 NOT APPROVED, TO BE RESUBMITTED for BAS 3		Flap Return Valve on Main Network	Flap Return Valve on Main Network	P-Toc-014	within DLP	N/A - Refer Consultants specs	N/A - Refer Consultants specs	Refer to system	Refer to O&M	
47	Swimming Pool and filtration plant			DS-OM-029-A		P-Toc-014	Refer to O&M	N/A - Refer Consultants specs	N/A - Refer Consultants specs	TAS-003	Refer to O&M	
48	Cascade water Feature			DS-OM-025-B		P-Toc-014	To be Updated as per approval of the System	N/A - Refer Consultants specs	N/A - Refer Consultants specs	TAS-009	Refer to O&M	
49	Elevators			DS-OM-028-A		P-Toc-014		Damaged equipment due to water infiltration	Damaged equipment due to water infiltration	TAS-002	Refer to O&M	
50	Building Management Unit (BMU)			DS-OM-022-A		P-Toc-014		N/A - Refer Consultants specs	N/A - Refer Consultants specs	TAS-001	Refer to O&M	
51	MEP Standard locks for for shaft access panels	NA	NA	NA	NA	P-Toc-014	within DLP	N/A - Refer Consultants specs	N/A - Refer Consultants specs		Refer to O&M	TO BE SUBMITTED BY KEC
52	Units Key Locks (Shops, offices, apartments, public areas etc...)	NA	NA	NA	NA	P-Toc-014	within DLP	N/A - Refer Consultants specs	N/A - Refer Consultants specs		Refer to O&M	
53	Sliding Steel Gates	TBA				P-Toc-014		N/A - Refer Consultants specs	N/A - Refer Consultants specs	TAS-023	Refer to O&M	
54	Barriers	TBA				P-Toc-014		N/A - Refer Consultants specs	N/A - Refer Consultants specs	TAS-023	Refer to O&M	
55	Rolling Shutters	TBA				P-Toc-014		N/A - Refer Consultants specs	N/A - Refer Consultants specs	TAS-023	Refer to O&M	
56	Automated sliding glass doors	Refer to architecture AS BUILT	Refer to architecture AS BUILT			P-Toc-014		N/A - Refer Consultants specs	N/A - Refer Consultants specs		Refer to O&M	
57	Compartment Fire rated shutter	Refer to architecture AS BUILT	Refer to architecture AS BUILT			P-Toc-014		N/A - Refer Consultants specs	N/A - Refer Consultants specs		Refer to O&M	
58	PABX Telephone			DS-OM-031-A		P-Toc-014		N/A - Refer Consultants specs	N/A - Refer Consultants specs		Refer to O&M	

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Revise and Resubmit
Not Approved

TO SUBMIT BY KEC
Submitted by KEC

TOWER 44

MEP Systems Tracking sheet

Date:

17/08/2021

s/n		As Built Drawings (Soft)	As Built Drawings (Hard)	Operation & Maintenance Manuals (SOFT)	Operation & Maintenance Manuals (HARD)	Testing & Commissioning (T&C) Certificates	Warranty	List of Spare Parts	Spare Parts ON SITE	Training	Supplier	REMARKS
59	VRV SYSTEM			-	-	P-Toc-014		N/A - Refer Consultants specs	N/A - Refer Consultants specs	TAS-005	Refer to O&M	

Tower 44 Attached to TOC

ANNEX D - Training Status to date of the TOC

Doc. Ref.	System Description	DG Jones Remarks
TAS-001-A	BMU	
TAS-002-A	Elevators	Rejected
TAS-003-A	Overflow & Kid's Pools at F14	Rejected
TAS-004-A	Generators	
TAS-005-A	VRV system	
TAS-006-A	Gas Boilers	
TAS-007-A	Water Treatment (Domestic Water)	Needs Waste Water to Run, Currently N/A
TAS-008-A	Water Treatment (Grey Water)	From Rabbih: Grey Water Treatment plant: not operational at this stage thus another training will be performed by Aquarius when ready (No comments on the actual training on how to operate the plant)
TAS-009-A	Water Treatment (Cascade)	
TAS-010-A	FM200 & Firefighting equipment	
TAS-011-A	Pumps	Postponed to 08/06/2021 with 2 hours notice ahead
TAS-012-A	Firefighting Pumps	
TAS-013-A	Voice Evacuation	
TAS-014-A	BMS	Reference to yesterday training for BMS system, I have only one request is to add speakers to the BMS PC in order to give sounds for alarms
TAS-015-A	CO system	<p>Dear Joseph,</p> <p>Reference to yesterday training for the CO system, the trainer Mr. Salim Chami (from DEBBAS) did mention that the exhaust & Fresh air fans at car park at basements will stop operating after an interval of time of around 30 minutes (he was not sure about the number) if the CO level is kept very low.</p> <p>According to the international norms the ventilation in the car park should not stop in order to keep air circulation in the basements and specially to treat somehow the moisture during humid weather seasons.</p> <p>By other terms, the ventilation system in the basement is not exclusively for the CO emission.</p> <p>The above is to be checked with the mechanical consultant for his advice.</p> <p>Regards,</p> <p>Rabih Kfoury</p> <p>-</p> <p>Dear Joseph,</p> <p>With reference to the below email, the information mentioned does not reflect the approved sequence of operation or the test results. accordingly the contractor should proof this matter noting that during low CO the fans will operate as described here under:</p> <p>[[The Modes of Operation are as follows:</p> <p>A. Low Pollution Mode – Low CO Level (CO < 35ppm):</p> <p>Under normal ventilation condition, air shall be drawn to the car park thru the ramps (forbasement 1) and the supply fans FAF (for basement 2 & 3) while being extracted thru the exhaust fans (all Basements). When the CO level is close to 35ppm (read by the CO sensors & monitored by the BMS through the CO-Panel) in the affected ventilation or parking area zone, all fans speed will be controlled via BMS which will enable all fans VFD to run @ low RPM being equivalent to a minimum frequency of around 30Hz (60%) in order to maintain the required comfort level in the car park space. All jet fans shall remain in the OFF position.]]</p> <p>Elie M. Hajj</p>

Tower 44 Attached to TOC

ANNEX D - Training Status to date of the TOC

Doc. Ref.	System Description	DG Jones Remarks
TAS-018-A	Gas / LPG / Meters	<p>Reference to yesterday training for the gas system with APGAZ, I have noted the following:</p> <p>No labeling for the vaporizer accessories & all pipes around it (make-up water, vapor line, liquid line, drain, turning ON the vaporizer, etc...)</p> <p>No labeling for the four gas tanks at GF (I suggest to install tag at the fence of each tank GT-1, GT-2, GT-3 & GT-4 for identification)</p> <p>Some pipes welding need touch up paint in the vaporizer room.</p> <p>One gas vapor pipe line is cut at the tank outlet; to check the reason if from soil settlement or anything else.</p> <p>In general, I found the tank outlet connection is very dangerous without a flexible from a good brand !!</p> <p>When the gas tanks will be full in the near future, I am afraid to get another pipe cut for any soil settlement or earthquake and accordingly a major gas leak will happen.</p>
TAS-019-A	Telephone & Data systems	<p>Reference to today training for the telephone system, I have the following comments:</p> <p>MDF panels to be tagged in both technical rooms (3 panels)</p> <p>To attach one UPDATED drawing in each MDF panel for units distribution</p> <p>The as-built drawing for the telephone SDS-EL-113 which is attached in the telephone O&M, DS-OM-003 needs update.</p>
TAS-020-A	Fire Alarm	<ol style="list-style-type: none"> 1. PC speakers to be supplied 2. Reports and logs printer to be supplied 3. Fire phone jacks to be supplied 4. It was agreed with "Tetracom" that they will come in another visit just before the handing over to Operators to remove all faults in the systems when UPS is connected. <p>Actual faults now are temper switches for firefighting lines in all core & shell units, broken glasses for callpoints in different areas; & FM200 systems turned off.</p>
TAS-017	Fans	
TAS-016	Metering & billing	
	CCTV	CCTV: will be postponed till after the GF outdoor cameras installation (missing brackets from Glassline)
	Central Battery System	CBS & UPS: will be postponed until the batteries are installed (need 24hrs power supply)
TAS-021-A	Videophone	
	UPS	CBS & UPS: will be postponed until the batteries are installed (need 24hrs power supply)
TAS-024	Earthing & Lightning	

Doc. Ref.	System Description	DG Jones Remarks
	Soft Landscaping & Irrigation	<p>Dear Joseph,</p> <p>Reference to our yesterday meeting at site with ROOTS (the plantation & irrigation contractor), Mr. Gaby Khalifeh is requested to submit the following documents prior to handing over to FM:</p> <ul style="list-style-type: none">-O&M for the irrigation system & controller showing the different zones.-As-built drawings for the plantation & irrigation system-Irrigation software installation (HYDRAWISE) to the FM with the setup data for winter & summer seasons.-Training on the controller & software usage. <p>Furthermore, during the training session for the pumps at B4 I have noticed that the irrigation pump is working & stopping continually (with fraction of seconds) during irrigation operation which is not healthy for the pumps & accordingly it will be damaged very soon at this pace.</p> <p>I suggest to get the consultant advice if a VFD to be installed on the pump or even to change the pump for smaller size if it is oversized for the actual greenery area.</p> <p>Regards, Rabih Kfoury</p>
TAS-023-A	Garage Doors & Parking Control	
TAS-023-A	Gates and Barriers	

Trade	Received	A/AAN	Pending KEC - RR	Pending
ST	282	282	0	0
AR	90	77	8	5
EL	48	46	1	1
ME	38	37	0	1
AL	5	0	0	5
CS	7	7	0	0
SS	6	0	0	6
Metal Works	19	15	0	4
Pools	2	2	0	0
Cascade	1	0	0	1
Total	498	466	9	23

Trade	Received	A/AAN	Pending KEC - RR	Pending
DS-OM	31	27	0	4



Beirut, June 28th, 2021

DN2 SAL

Dora, Demco headquarters

Att.: Mr. Alex Demirdjian

Chairman and General Manager

Subject: Construction Agreement ("**Forty Four Project**")

Dear Sir,

We (Kfoury Contracting and Engineering SARL) refer to the Contact Agreement (**the "Agreement"**), dated March 12th, 2015 titled "*Letter of Acceptance in respect of Package A and completion of Forty-Four*", the "*Addendum N0 1 to the Forty Four Project Contract Agreement*" ("**Addendum N0 1**"), and to the "*Addendum 02 to the Forty Four Project Contract Agreement*" ("**Addendum 02**") dated September 30th, 2020;

We acknowledge and confirm that by signing this letter, we waive finally and irrevocably all our rights in regards to any claim (which relates to, or arises from any matter, cause, thing, or event, including without limitation those connected in any way whatsoever to the Agreement, Addendum NO 1, Addendum 02, The Forty Four Project, any delay of the works, suspension of the works, the port explosion, Covid-19, economic crisis, unofficial capital control, banking regulations, LBP devaluation, etc...) for extension of time, indirect costs, profits, compensation, overheads, delay costs, compensation, and additional payment, and interest on any due and unpaid amounts up to the date of this letter, and we hereby acknowledge and confirm that we have received all our dues in connection with the Main Contract without any exception whatsoever.

Accordingly, we hereby finally, fully, irrevocably, and unconditionally release, discharge and acquit DN2 SAL in regards to any claim (which relates to, or arises from any matter, cause, thing, or event, including without limitation those connected in any way whatsoever to the Agreement, Addendum NO 1, Addendum 02, The Forty Four Project, the port explosion, Covid-19, economic crisis, unofficial capital control, banking regulations, LBP devaluation etc...) for extension of time, indirect costs, profits, compensation, overheads, delay costs, compensation, and additional payment, and interest on any due and unpaid amounts up to the date of this letter.

For the avoidance of doubt, this waiver, release and discharge excludes any direct cost resulting from any and all variation orders and LOIs up to the date of this letter and the remaining dues to



Kfoury Engineering and Contracting S.A.R.L.

repair the damages resulting from the port explosion which are reflected based on our final and irrevocable agreement in the attached statement.

As such we hereby acknowledge and confirm that our rights and dues and monies to complete the whole of the works reflected in the Agreement, Addendum NO 1, Addendum 02, and their exhibits (and in any variation/change order, LOI, and instruction to the date of this letter) excluding the retention are limited to the items referred to in the attached list.

Sincerely,

By: Camil Kfoury
General Manager

Acknowledged and Approved
DN2 SAL

By: Alex Demirdjian
Chairman- General Manager



Kfoury Engineering and Contracting S.A.R.L.

Beirut, June 28th, 2021

DN2 SAL
Dora, Demco headquarters
Att.: Mr. Alex Demirdjian
Chairman and General Manager

RECEIVED

By Nehme Haddad
8/7/2021

Subject: Construction Agreement ("Forty Four Project")

Dear Sir,

We (Kfoury Contracting and Engineering SARL) refer to the Contact Agreement (the "Agreement"), dated March 12th, 2015 titled "Letter of Acceptance in respect of Package A and completion of Forty-Four", the "Addendum N0 1 to the Forty Four Project Contract Agreement" ("Addendum N0 1"), and to the "Addendum 02 to the Forty Four Project Contract Agreement" ("Addendum 02") dated September 30th, 2020;

We acknowledge and confirm that by signing this letter, we waive finally and irrevocably all our rights in regards to any claim (which relates to, or arises from any matter, cause, thing, or event, including without limitation those connected in any way whatsoever to the Agreement, Addendum NO 1, Addendum 02, The Forty Four Project, any delay of the works, suspension of the works, the port explosion, Covid-19, economic crisis, unofficial capital control, banking regulations, LBP devaluation, etc...) for extension of time, indirect costs, profits, compensation, overheads, delay costs, compensation, and additional payment, and interest on any due and unpaid amounts up to the date of this letter, and we hereby acknowledge and confirm that we have received all our dues in connection with the Main Contract without any exception whatsoever.

Accordingly, we hereby finally, fully, irrevocably, and unconditionally release, discharge and acquit DN2 SAL in regards to any claim (which relates to, or arises from any matter, cause, thing, or event, including without limitation those connected in any way whatsoever to the Agreement, Addendum NO 1, Addendum 02, The Forty Four Project, the port explosion, Covid-19, economic crisis, unofficial capital control, banking regulations, LBP devaluation etc...) for extension of time, indirect costs, profits, compensation, overheads, delay costs, compensation, and additional payment, and interest on any due and unpaid amounts up to the date of this letter.

For the avoidance of doubt, this waiver, release and discharge excludes any direct cost resulting from any and all variation orders and LOIs up to the date of this letter and the remaining dues to

1. The sum of deferred amounts for Kone, Kfoury Engineering & Contracting and Ariss Lumiere Group as per letter cost to complete reference JS/PNM/2015/M1/402 dated 28 November 2020 detailed hereinafter:
 - a. Certified executed amounts for Kone, KEC & ALG from IPC-058 to IPC-064 (A, B, C, D, E...) to be transferred to Trock ;
 - b. Certified executed amounts for Kone from IPC-071 till IPC-089 (A, B, C...) cost to complete
 - c. Supply of Lighting Fixtures for Ariss Lumiere Group delivered installed and not certified from IPC IPC-058;
2. Night Power Supply from SGBL to tower civil aviation light and Façade light;
3. Day Power supply of the project cost is divided between Employer and Contractor;
4. Remaining amounts of Port Explosion cost;
5. Milestone C: The Employer will pay the 80,000\$ related to milestone C. The Engineer's determination remains that the Contractor did not meet milestone C, while the Contractor maintained his position that it was indeed met.
6. The amounts due to Sigma total 145,355.41 divided into 106,392.3 in total retention and 38,963.11 for executed works. KEC undertakes to reinstate to DN2 the above amounts less 50,000, i.e., $145,355.41 - 50,000 = 95,355.41$ USD.
7. Payment of stolen and damaged items to be paid by Insurance such as FM200 Control Heads, Mixers of apartments bathrooms , earth cable in technical Floor 13; In the meantime, KEC will finance these items in order to allow full operation of the systems.
8. Balcony closures ,push out windows and heating amounts which have not yet paid by the tenants and/or employer;
9. Remaining Payments for Works after IPC-LOI-002, which are on top of addendum 02 and summarized hereinafter:
 - a. RVO-LOI-014 - Steel Handrails;
 - b. RVO-LOI-022 – Concrete benches;
 - c. RVO-LOI-024 – MEP additional Storages;
 - d. RVO-LOI-033 – Garbage Room;
 - e. RVO-LOI- 049 - stainless steel for stair pool and kids corners protection area;
 - f. RVO-LOI-051 – Round About;
 - g. RVO-LOI-054 – Signage outlet;
 - h. RVO-LOI-058 – Water tank access door;
 - i. RVO-LOI-060 – Dummy Load;
 - j. Cost of civil and MEP works for dividing Commercial areas;
 - k. Connection of storages to office and shops power feeder (ATS room)
 - l. Extension and rerouting of MEP for shops 2, 8, 9, 10, 32, 37 due to basement omission;
 - m. Cost of Terraces modifications F25 & F33
 - n. Lighting Fixtures for Pedestrian and Residential canopies;



Kfoury Engineering & Contracting

Attached to Reservation List letter

"Construction agreement" dated 28th June
2021

- o. 68 mixers and p-traps for kitchen. 98 mixers were initially needed of which 30 were available at Emporio and procured in 2020. The remaining 68 were ordered but payment terms were no longer applicable by the time they became available. KEC will submit an alternative sample for approval that will have only a slightly higher cost than initially budgeted.

Tower 44

ANNEX G

Status of Apartments

FAR inspected	135	
Glassline Final Al. RR	2	1406-3408
Final aluminum in progress	2	1402-1606
On hold apartment	3	3003-3208-3807
Modified apart. in progress	12	
Recent Modified Balcony closure/gypsum wall (FAR previously RR)	6	2004-2103-2303-2402-3206-3604
Final coat RR but Balcony closure modification	1	3504

Total Apart. Nb.	161
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Electrical Systems			
System	T&C	FIR-EL	Status
Fire Alarm	FACP1	1284	AAN
	FACP2	1387	AAN
	FACP3	1278	AAN
	FACP4	1279	AAN
	FACP5	1295	AAN
	FACP6	1275	AAN
	FACP7	1276	AAN
	FACP8	1323	AAN
	FF TELEPHONE	1355	AAN
	FIRE MATRIX	1417	AAN
BMS	B1-B2 LIGHTING	1298	AAN
	B1-B2 JET FANS	1301	AAN
	B4 CONCRETE TANK WATER LEVEL	1333	AAN
	F32-TECH LIGHTING	1334	AAN
	B2-B3 FANS WITHOUT VFD	1335	AAN
	B2-B3 FANS WITH VFD	1336	AAN
	F32-TECH EF FANS	1338	AAN
	F13-TECH LIGHTING	1339	AAN
	F13-TECH EF FANS	1340	AAN
	B4 PUMP ROOM	1345	AAN
	F32-TECH PUMPS	1346	AAN
	B1 FANS	1351	AAN
	B4 PUMP ROOM FANS	1352	AAN
	MDBS AND SDBs	1353	AAN
	B3-B4 SUBMRSIBLE	1356	A
	B4 TREATMENT	1357	A
	FIR-EL-1378-B	1378	AAN
	F13/32-TECH WATER TANKS	1388	A
	B1 UPS	1389	A
	FIR-EL-1390-A	1390	A
	GF FACP	1391	A
	GFM GAS VAPORIZER	1392	A
	B4 FIRE PUMP	1398	AAN
	B1/B3 WASTE WATER VALVES	1400	AAN
	B1 METERS	1401	A
	B2 GENERATORS MODBUS	1402	A
	FIR-EL-1405-A	1405	A
	GF TRANS ROOM	1406	A
	B2 GENERATOR/FUEL ROOM	1407	AAN
	SMDB FIRE	1408	A

Electrical Systems			
System	T&C	FIR-EL	Status
Public Address	FIR-EL-1283	1283	AAN
Central Battery System	CBS-BAS1	1349	AAN
	CBS-F12A	1337	AAN
	CBS-F12B	1226	AAN
	CBS-ROOF	1277	AAN
UPS			
CO	FIR-EL-1393	1393	AAN
Billing System	FIR-EL-1399	1399	AAN
MDBs	MDB-SHOPS	995	AAN
	MDB-OFFICE 1	996	AAN
	MDB-OFFICE 2	997	AAN
	MDB-RES 1	1022	AAN
	MDB-RES 2	1023	AAN
	MDB-RESTAURANTS	1033	AAN
	SMDB-GS-OB	1037	AAN
	SMDB-GS-RES	1038	AAN
	SMDB-UL-OA	1066	AAN
	SMDB-UL-OB	1067	AAN
	ATS-FIRE PUMPS 1	1088	AAN
	ATS-FIRE PUMPS 2	1089	AAN
	ATS-SMDB-TOWER	1177	AAN
	SMDB-TOWER	1186	AAN
	MDB-U-LR1	1229	AAN
	MDB-CBS	1230	AAN
	SMDB-UL1	1238	AAN
	SMDB-UL2	1239	AAN
	SMDB-UL3	1240	AAN
	MDB-TRANS 6	1300	A
	SMDB-FIRE	1404	A
SDBs	SDB-TECH1 (FIR-EL-1065-B)	1065	AAN
	SDB-LOA 1,2,3 (FIR-EL-1068-B)	1068	AAN
	SDB-LOB 1,2,3 (FIR-EL-1069-B)	1069	AAN
	SDB-B2-1 (FIR-EL-1070)	1070	AAN
	SDB-B2-2 (FIR-EL-1071)	1071	AAN
	MCC-PUMPS (FIR-EL-1077-B)	1077	AAN
	MCC-FF-13F (FIR-EL-1176)	1176	AAN
	SDB-TECH2 (FIR-EL-1232)	1232	AAN
	SDB-RES-TECH2 (FIR-EL-1233)	1233	AAN
	MCC-PUMPS-B3 (FIR-EL-1234)	1234	AAN
	SDB-B1-1 (FIR-EL-1288)	1288	AAN
	SDB-B1-2 (FIR-EL-1289)	1289	AAN
	SDB-B1-3 (FIR-EL-1290)	1290	AAN
	SDB-B1-4 (FIR-EL-1291)	1291	AAN
	SDB-GS-GF/OA (FIR-EL-1303)	1303	AAN
	SDB-GS-GF/OB (FIR-EL-1304)	1304	AAN
	SDB-GS-GF/RES (FIR-EL-1305)	1305	AAN
	SDB-GS-GF (FIR-EL-1306)	1306	AAN
	SDB-LR-1 (FIR-EL-1310)	1310	AAN
	SDB-LR-2 (FIR-EL-1311)	1311	AAN

Electrical Systems			
System	T&C	FIR-EL	Status
	SDB-LR-3 (FIR-EL-1312)	1312	A
	SDB-LR-4 (FIR-EL-1313)	1313	A
	SDB-LR-5 (FIR-EL-1314)	1314	AAN
	SDB-LR-6 (FIR-EL-1315)	1315	A
	SDB-LR-7 (FIR-EL-1316)	1316	A
	SDB-LR-8 (FIR-EL-1317)	1317	A
	SDB-G-1 (FIR-EL-1318)	1318	AAN
	SDB-G-2 (FIR-EL-1319)	1319	AAN
	SDB-LS1 (FIR-EL-1395)	1395	A
	SDB-LS2 (FIR-EL-1396)	1396	A
	SDB-LR9 (FIR-EL-1403)	1403	A
Generators Plant Room	Dummy load test	868	AAN
	Load management test	881	AAN
	Noise test	888	AAN
Videophone	Videophone system in offices	1235	AAN
	Videophone system in apartments	1385	AAN
Telephone	MDF-Offices	1086	AAN
	MDF-Shops	1087	AAN
	MDF-Residential	1127	AAN
Façade Lighting		1382	A
		1000	AAN
		998	AAN
		909	AAN
Landscape Lighting	SDB-LS	1395	A
	SDB-LS	1396	A
Aviation Light		1296	AAN
CCTV		1343	AAN
Earthing and Lightning	Earth bars	942	AAN
	Earth resistance test	1271	AAN
	Earth resistance test	1322	AAN
	Lightning system continuity test	1280	AAN
	Lightning mast at TOR	1286	AAN
	Lightning protection system	1344	AAN

Mechanical Systems			
System	T&C FIR-ME#	FIR-ME	Status
Firefighting	Firefighting zone control valves - B4, B3, B2	963	AAN
	Firefighting zone control valves - B1 to F13	1012	AAN
	F13 fire pumps	1037	AAN
	Firefighting zone control valves - F14 to F34	1041	AAN
	Fire pumps syncro - B4 & F13	1220	A
	Firefighting zone control valves - F35 to Roof	1049	AAN
	Firefighting system	1067	AAN
Fans	EF-B03-06	780	AAN
	EF-B02-06	781	AAN
	EF-B01-05	782	AAN
	EF-B01-06	783	AAN
	FAF-B02-04	784	AAN
	EF-TF-01-APTS 4	804	AAN
	EF-TF-01-APTS 6	805	AAN
	EF-TF-04-APTS 5	806	AAN
	EF-TF-01-APTS 8	831	AAN
	EF-TF-05-APTS 1&2	832	AAN
	EF-TF-03-APTS 3	862	AAN
	EF-1B-03	864	AAN
	EF-2B-02	866	AAN
	EF-2B-03	867	AAN
	EF-3B-02	868	AAN
	EF-3B-03	869	AAN
	EF-3B-04	870	AAN
	EF-TF-06 & 07-APTS 3 & 7	875	AAN
	EF-2B-04	891	AAN
	FAF-3B-03	892	AAN
	FAF-2B-01	893	AAN
	FAF-2B-02	894	AAN
	FAF-2B-03	895	AAN
	FAF-3B-01	896	AAN
	FAF-3B-02	897	AAN
	EF-TF-02-F33 to F44-APTS 4	901	AAN
	EF-TF-02-F33 to F44-APTS 8	902	AAN
	FAF-F13-02/03-F14	903	AAN
	EF-4B-01	923	AAN
	FAF-4B-01	924	AAN
	EF-1B-07	925	AAN
	EF-F13-01	926	AAN
	B3 - Induction Fans	927	AAN
	B2 - Induction Fans	928	AAN
	SF-F13-02-FST3	945	AAN
	SF-F13-02-FST4	946	AAN
	EF-1B-01	970	AAN
	B1 - Induction Fans	994	AAN
	SF-F13-01	1033	AAN
	SF-TF-01	1034	AAN

Mechanical Systems			
System	T&C FIR-ME#	FIR-ME	Status
	SF-RF-01	1035	AAN
	SF-G-02	1057	AAN
	SF-G-03-PST1	1058	AAN
	SF-G-03-PST3	1059	AAN
	SF-G-03-PST4	1060	AAN
	SF-G-04	1061	AAN
	EF-1B-02	1062	AAN
	Main Stairs Pressurization	1178	A
	EF-1B-08&09-B1	1201	A
	EF-CA-01-GFM	1202	A
FM 200	EDL post room	807	AAN
	MDB shops room	808	AAN
	UPS/CBS room	809	AAN
	ATS/MDB room	810	AAN
	Generator room	828	AAN
	Daily fuel oil tank room	829	AAN
	Totalizing room	1025	AAN
	Vaporizer room	1026	AAN
	F12 CBS room	1027	AAN
	Roof CBS room	1028	AAN
Pumps	TECH1 - P-B-03	898	AAN
	TECH1 - P-B-04	899	AAN
	TECH1 - P-B-08	900	AAN
	B4 - P-B-10	989	AAN
	B4 - P-B-11	990	AAN
	B4 - P-D-01	1152	AAN
	B3 - P-D-02	1153	AAN
	B3 - P-D-02-2	1154	AAN
	B3 - P-D-02-3	1155	AAN
	B3 - P-D-02-4	1156	AAN
	B3 - P-D-02-5	1157	AAN
	B3 - P-D-02-6	1158	AAN
	B3 - P-S-01	1159	AAN
	B3 - P-S-02-1	1160	AAN
	B3 - P-S-02-2	1161	AAN
	B3 - P-S-03	1162	AAN
	B3 - P-W-01	1163	AAN
	B3 - P-W-02-1	1164	AAN
	B3 - P-W-02-2	1165	AAN
	B3 - P-W-03	1166	AAN
Watertreatment	B4 Pump room - Raw water treatment	991	AAN
	B4 Pump room - Grey water treatment	992	NA
Gas System		1063	AAN
Irrigation System		1226	A