

Oil Storage Installations

Building (Oil Storage Installations) Regulations

An oil storage installation is defined in section 2(1) of the Buildings Ordinance as any tank having a capacity of not less than 110,000 litres, or a group of tanks (within the same cluster or banded area) any one of which has a capacity of not less than 110,000 litres, constructed above ground level for the purpose of storing oil or petroleum products.

2. The construction of an oil storage installation should not commence without having first obtained approval and consent under Buildings Ordinance section 14(1).

3. An above ground oil storage installation will be deemed to satisfy the requirements of the Building (Oil Storage Installations) Regulations (the Regulations) if it meets the standards set out in the Code of Practice for Oil Storage Installations 1992.

4. An oil storage installation should not commence operation before a licence to do so has been granted under the Regulations.

5. All existing oil storage installations and their associated works should have been licensed under the Regulations. Any new installation and its associated works will require a licence. Any alterations and additions (including a new tank) to an existing installation or its associated works will require an endorsement in the licence for the installation. As a prerequisite to the granting of a licence for a new installation, six copies of the proposed operation instructions of the installation and its associated works should be submitted for agreement. In the case of an endorsement of alterations and additions in the licence of an existing installation where operational changes are proposed, six copies of the amended operation instructions should also be submitted for agreement.

6. It should be noted that an occupation permit and a certificate of general inspection are required prior to the granting of a licence for new installations. For new tanks in an existing licensed installation the original licence should be returned with the application for endorsement. The licence is renewed annually and the application must be accompanied by the certificates of external inspection of the tanks as required under Regulation 8(1)(b) of the Regulations in the form as the copy attached at Appendix B, and certificate of inspection of the associated works as required by Regulation 8(1)(c) in the form as the copy attached at Appendix C.

cont'd/.....

7. In addition, in accordance with Regulation 8(1)(a), a general inspection must be carried out of all tanks internally not later than the tenth year in the life of the tank, and thereafter such inspection shall be carried out once in the fifth year after the year in which the first inspection was carried out. Each certificate of general inspection of a tank must be issued immediately after the inspection, in the form as the copy attached at Appendix A, to the licensee who shall then deliver it to the Building Authority.

8. For the repair of or the alteration and addition to an existing installation, two copies of the proposals, signed by a registered structural engineer, should be submitted in order to obtain written authorization, as required under Regulation 10. Where the repair works are considered to be extensive or where the alteration and addition involve non-exempted building works, formal approval under the Buildings Ordinance should also be sought. The normal requirements and procedures under the Buildings Ordinance for carrying out building works are applicable.

9. There have been cases where partially constructed tanks were damaged during a typhoon. Suitable precautionary measures should therefore be adopted during the construction or repair of tanks when unfavourable weather conditions are anticipated.

10. Demolition of the whole or any part of an oil storage installation should be carried out in such a manner as to minimize the risk of environmental pollution, fire or explosion. A clear statement of the method of demolition to be employed should be submitted for agreement before or with the application for consent to commence work or the application for written authorization, as the case may be.



(Darwin Chen)  
Building Authority

Ref. : BLD(B) GP/BREG/A/6/1

First issued May 1978

This revision March 1993 (GBS/L) - revised to incorporate new requirements in the Building (Oil Storage Installations) (Amendment) Regulation 1993

Index under : Building (Oil Storage Installations) Regulations  
Oil Storage Installations

INSPECTION OF TANKS  
 BUILDING (OIL STORAGE INSTALLATIONS) REGULATIONS  
 REGULATION 8(1)(a)  
 CERTIFICATE OF GENERAL INSPECTION

....., 19 .....

In accordance with the provisions of Regulation 8(1)(a) of the Building (Oil Storage Installation) Regulations, I .....  
 Registered Structural Engineer, hereby CERTIFY that I have \*inspected/supervised the  
 general inspection of the tank forming part of the oil storage installation operated by  
 ..... (Company)  
 ..... address  
 ..... lot No.  
 and in my opinion this tank is

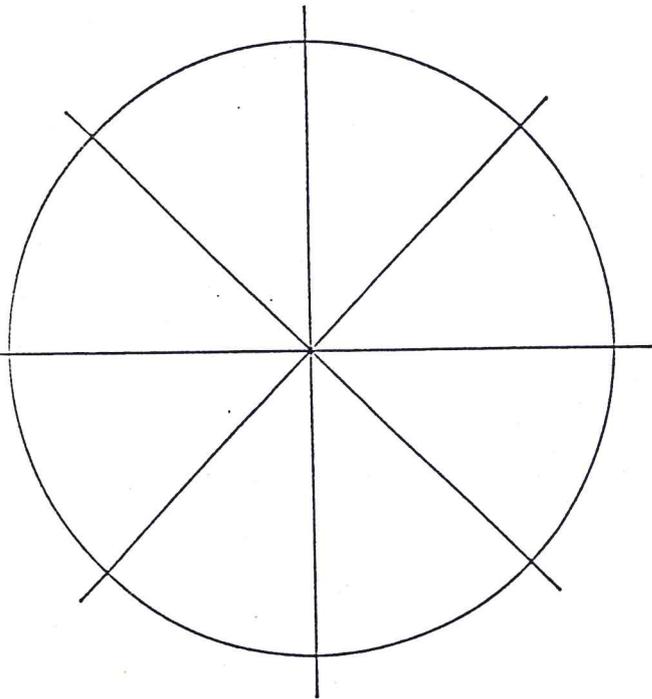
- structurally sound and fit for service for a further twelve months \*and the  
 undernoted corrective measures are required
- unfit for service until the undernoted measures are completed to my  
 satisfaction

TANK NO.		CAPACITY	FIXED OR FLOATING ROOF		YEAR BUILT	DATE OF INSPECTION
.BA	CO.					
No.	INSPECTION ITEM	CONDITION		REMARKS/RECOMMENDATION FOR CORRECTIVE MEASURES		
		SATISFACTORY	REPAIR			
1	ULTRASONIC TEST					
	a) 1ST/2ND COURSES SHELL	<input type="checkbox"/>	<input type="checkbox"/>			
	b) BASE PLATE	<input type="checkbox"/>	<input type="checkbox"/>			
2	EXTERNAL/INSULATION PAINTWORK	<input type="checkbox"/>	<input type="checkbox"/>			
3	SETTLEMENT+	<input type="checkbox"/>	<input type="checkbox"/>			
4	PERIPHERAL BASE SEAL	<input type="checkbox"/>	<input type="checkbox"/>			
5	EXPOSED BOTTOM PLATE AND JOINT	<input type="checkbox"/>	<input type="checkbox"/>			
6	EARTH CONNECTION	<input type="checkbox"/>	<input type="checkbox"/>			
7	TANK FOUNDATION AND SURFACING	<input type="checkbox"/>	<input type="checkbox"/>			
8	ROOF STRUCTURE	<input type="checkbox"/>	<input type="checkbox"/>			
9	STAIRS, WALKWAYS	<input type="checkbox"/>	<input type="checkbox"/>			
10	DRAINAGE FROM AND AROUND TANK	<input type="checkbox"/>	<input type="checkbox"/>			
11	MISC.	<input type="checkbox"/>	<input type="checkbox"/>			

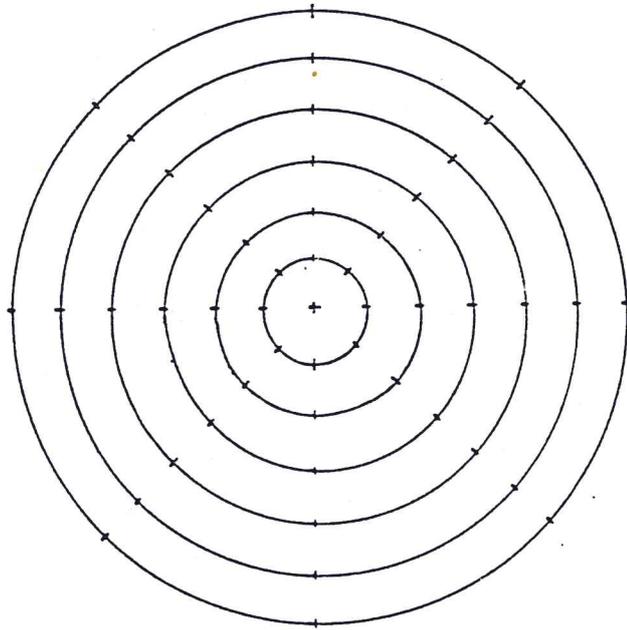
+ Settlement Record Overleaf  
 \* Delete as appropriate

SETTLEMENT RECORD

TANK NO. _____ :	DIAMETER = _____	METRES :	HEIGHT = _____	METRES
SURVEY MEASUREMENTS TAKEN ON _____				(DATE)
MAXIMUM DIAMETRIC DIFFERENTIAL SETTLEMENT	=		MM BETWEEN PERIMETER POINTS	_____
MAXIMUM ANGULAR DISTORTION	=	1 : _____	BETWEEN PERIMETER POINTS	_____
MAXIMUM TILT	=		MM	
BASE PLATE CENTRE LEVEL	=		METRES P.D.	
MINIMUM MEASURED THICKNESS OF BASE PLATE	=		MM	



PERIMETER LEVELS



BASE PLATE CONTOUR PLAN



.....  
 Signature of Registered Structural Engineer

.....  
 Address of Registered Structural Engineer

INSPECTION OF TANKS  
 BUILDING (OIL STORAGE INSTALLATIONS) REGULATIONS  
 REGULATION 8(1)(b)  
 CERTIFICATE OF EXTERNAL INSPECTION

....., 19 .....

In accordance with the provisions of Regulation 8(1)(b) of the Building (Oil Storage Installation) Regulations, I .....  
 Registered Structural Engineer, hereby CERTIFY that I have \*inspected/supervised the external inspection of the tank forming part of the oil storage installation operated by ..... (Company)  
 ..... address  
 ..... lot No.  
 and in my opinion this tank is

structurally sound and fit for service for a further twelve months \*and the undernoted corrective measures are required

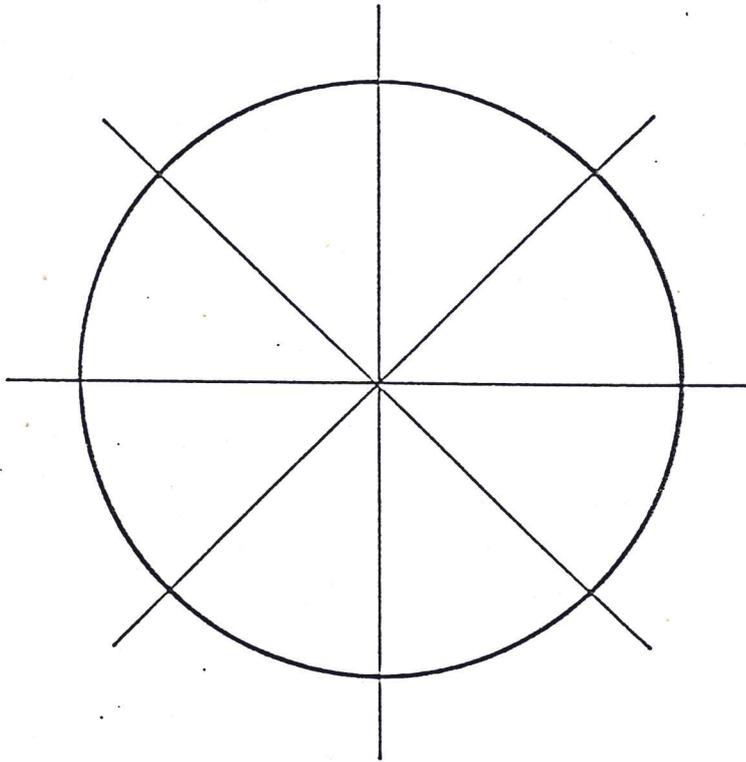
unfit for service until the undernoted measures are completed to my satisfaction

TANK NO.	CAPACITY	FIXED OR FLOATING ROOF	YEAR BUILT	DATE OF INSPECTION
BA	CO.			
No.	INSPECTION ITEM	CONDITION		REMARKS/RECOMMENDATION FOR CORRECTIVE MEASURES
		SATISFACTORY	REPAIR	
1	ULTRASONIC TEST 1ST/2ND COURSES	<input type="checkbox"/>	<input type="checkbox"/>	
2	EXTERNAL/INSULATION PAINTWORK	<input type="checkbox"/>	<input type="checkbox"/>	
3	SETTLEMENT+	<input type="checkbox"/>	<input type="checkbox"/>	
4	PERIPHERAL BASE SEAL	<input type="checkbox"/>	<input type="checkbox"/>	
5	EXPOSED BOTTOM/PLATE/JOINT	<input type="checkbox"/>	<input type="checkbox"/>	
6	EARTH CONNECTION	<input type="checkbox"/>	<input type="checkbox"/>	
7	TANK FOUNDATION AND SURFACING	<input type="checkbox"/>	<input type="checkbox"/>	
8	ROOF STRUCTURE	<input type="checkbox"/>	<input type="checkbox"/>	
9	STAIRS, WALKWAYS	<input type="checkbox"/>	<input type="checkbox"/>	
10	DRAINAGE FROM AND AROUND TANK	<input type="checkbox"/>	<input type="checkbox"/>	
11	MISC.	<input type="checkbox"/>	<input type="checkbox"/>	

+ Settlement Record Overleaf  
 \* Delete as appropriate

SETTLEMENT RECORD

TANK NO. _____ :	DIAMETER = _____ METRES :	HEIGHT = _____ METRES
SETTLEMENT MEASUREMENTS TAKEN ON _____ (DATE)		
LEVEL OF PRODUCT IN TANK	= _____	METRES
MAXIMUM DIAMETRIC DIFFERENTIAL SETTLEMENT	= _____	MM BETWEEN PERIMETER POINTS _____
MAXIMUM ANGULAR DISTORTION	= 1 : _____	BETWEEN PERIMETER POINTS _____
MAXIMUM TILT	= _____	MM



.....  
Signature of Registered Structural Engineer

.....  
Address of Registered Structural Engineer

c.c. Director of Fire Services

BUILDING (OIL STORAGE INSTALLATIONS) REGULATIONS

REGULATION 8(1)(C)

CERTIFICATE OF INSPECTION OF ASSOCIATED WORKS

To the Building Authority,

In accordance with the provisions of Regulation 8(1)(c) of the Building (Oil Storage Installations) Regulations, I \_\_\_\_\_, Registered Structural Engineer, hereby CERTIFY that I have inspected on \_\_\_\_\_/supervised the inspection which was carried out on \_\_\_\_\_ of the associated works of the oil storage installation operated by \_\_\_\_\_ (company) at \_\_\_\_\_ (address) on \_\_\_\_\_ (lot no.)

and in my opinion the associated works are

fit for use for a further twelve months and the repairs listed in paragraph 2 below are required.

Unfit for use until the repairs listed in paragraph 2 below are completed to my satisfaction.

2. The following repairs to the associated works are required :

\_\_\_\_\_  
Signature of Registered Structural Engineer

\_\_\_\_\_  
Address of Registered Structural Engineer

c.c. Director of Fire Services