

EU-MRV Solution - ClassNK MRV Portal

**MRV-Monitoring Reporting Verification Seminar
Glyfada Golf Gardens
27th April, 2017
ClassNK**

ClassNK MRV Portal Main Functions :

Application/Management

- Application for assessment / verification
- Registration of applicable ships
- Setting access control

Monitoring Plan

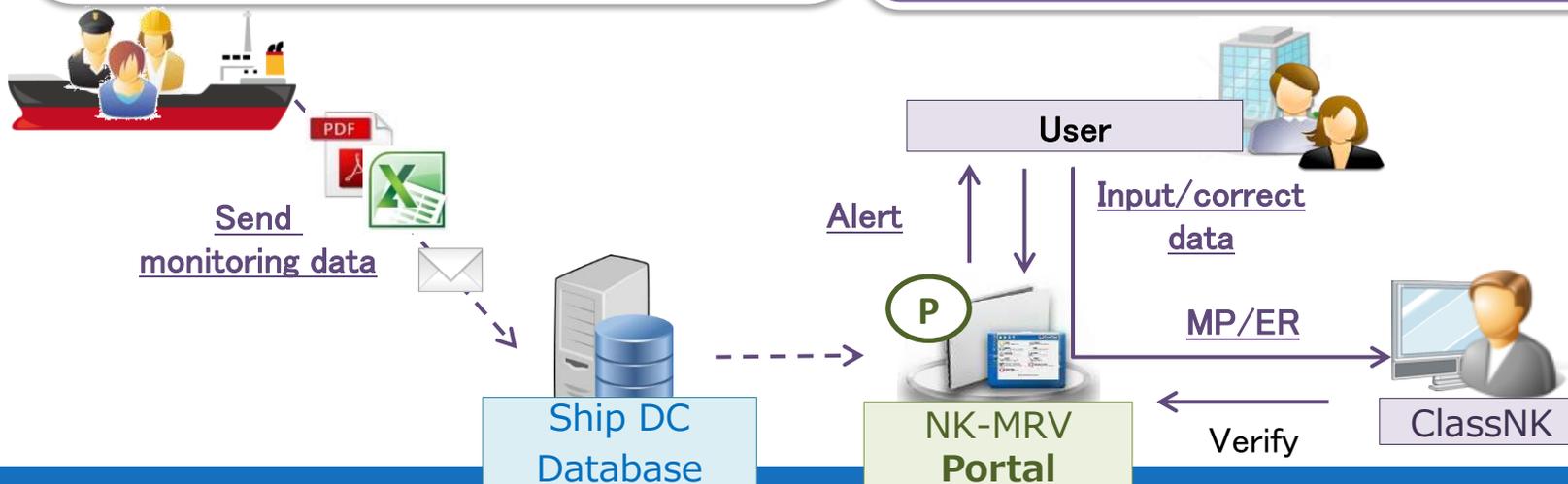
- Download of MP template
- Input Company/Ship data
- Submission for assessment

Monitoring of data

- download on-board data reporting template
- Sending monitoring data & Supporting documents
- Managing/correcting accumulated data
- Setting alert criteria for the missing or abnormal data

Emissions Report

- Checking and Aggregating annual data
- Submission for verification



From application to ER submission :

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- **Open web site from May 2017**
- Online application from ClassNK web page
- Trial use is available for MP and monitoring of data
- **Available from May 2017**
- Data connection with “NK-SHIPS”
- Monitoring data can be sent to Portal by ships from Sep 2017
- Simple excel format for on-board
- Data linkage between on-board Ablog system and MRV portal is possible
- 01st ER submission from Jan 2019

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Application: <http://www.classnk.or.jp/hp/ja/>

ClassNK

Site Map Links English 日本語 简体中文 繁體中文 한국어 Deutsch

S M L Font Size

Google Custom Search

HOME AboutNK Products & Services Certification Services Information Services Research

ClassNK promotes cutting edge research & development.

UT WIND CHALLENGER

Search by Topic

See and Learn Find Out Download / Order

- Introduction
- Main Services
- Organizations
- History
- Services Network
- Directory
- Common Structural Rules for Bulk Carriers and Oil Tankers(CSR BC & OT)
- R&D Activities
- PrimeShip
- PrimeManagement
- ClassNK Academy
- Publications

Web Service Portal Login

MyPage Login

Quick Links

- Register of Ships
- Rules & Guidance
- Technical Information
- Management Systems

Press Release Find out more

- 06 Apr ClassNK e-Certificate authorized by Liberian Registry
- 30 Mar

News & Events Find out more

- 12 Apr Temporary Suspension of ClassNK Web Services

Application:

ClassNK Web Service
NIPPON KAIJI KYOKAI

日本語 English

Important Notice This is Web Service Portal Test site.

Web Service Menu **LOG OUT**

- e-Application** Online application service for surveys and audits
[Information and contact...](#) **Go to Web Service**
- NK-SHIPS** Comprehensive information service for ship management
[Information and contact...](#) **Go to Web Service**
- PrimeShip - HULLCare** Advanced hull maintenance information service
[Information and contact...](#) **Go to Web Service**
- Application for NK MRV Portal** Application for ClassNK MRV Portal
[Information and contact...](#) **Go to Web Service**
- ClassNK MRV Portal** ClassNK MRV Portal
[Information and contact...](#) **Go to Web Service**

Password Change
Password Management

Microsoft Internet Explorer or Google Chrome or Firefox is required to use the following ClassNK web services. The website may be inoperable or may not display properly on other browser.

Topics **More...**

- 07 Apr 2017 NEW**
Website updating for "PrimeShip-HULL for Container Carriers"
- 31 Mar 2017 NEW**
Website updating for "PrimeShip-HULL(HCSR)"
- 24 Feb 2017**
Website updating for "PrimeShip-HULL(CSR)"
- 17 Feb 2017**
Website updating for "PrimeShip-HULL(HCSR)"
- 09 Feb 2017**
New version release announcement for "PrimeShip-HULL(HCSR)"

ClassNK MRV Portal Application web page

Application: Complete on-line

NK EUMRV Portal [TRIAL] Ver.1.0.0 - 2017/04/04

Application

Company Information

Name of the company: ClassNK Ship Management Co., Ltd.

Address: 3-3 Kloi Cho, Chiyoda-Ku
City: Tokyo
State/Province/Region:
Postcode/ZIP: 102-0094
Country: Japan

組織の代表者
First Name: Taro
Surname: Kaiji
役職: CEO

MRVの代表者
First Name: Jiro
Surname: Kaiji
役職: Technical Department

担当者
First Name: Saburo
Surname: Kaiji
役職: Designated Person
所属部署: Technical Department
Tel: 03-XXXX-XXXX
Fax:
E-Mail: tech@nkshipmanagement.com
※メールアドレスをお持ちでしたら、そちらをご記入ください。

認証対象船舶

Ship name	IMO No.	Type of Ship
ROYAL HARBORER	9491528	Bulk carrier
NORDENSIUS	9620633	Gas carrier
FEDERAL CARDINAL	9723163	Gas carrier
STAR CRIMSON	9758870	Chemical tanker

認証種類

- モニタリングプラン審査
- エミッションレポート (ER) 認証

認証データの提出方法

- ClassNK MRV Portalを利用して認証データを提出する
 - NK-SHIPS ログインID有り ログインID: CK11000
 - NK-SHIPS ログインID無し
- ClassNK MRV Portalを利用せず認証データを提出する

概要:

ER認証対象期間

- January 1, 2018 ~ December 31
- Every year since 2018

請求先

- 左記申込者宛
- 下記請求先宛

請求先名称:

City:

Address:

Application form

Application:

- Register Applicable ships and persons/companies in charge

Ship name	IMO No.	Flag	Name of Ship owner	Type of ship
...	9310288	PAN	...	Bulk carrier
...	9400954		...	Passenger ship
...	9400940	PAN	...	Bulk carrier
...	9777163		...	Ro-ro ship

- Ship list is automatically generated by NK-SHIP database for ClassNk ships
- Ships other than ClassNK should be added by the user.

-
- | User | Type |
|------------------|--------|
| Nana Ijichi | サブユーザー |
| Shimpei Watanabe | サブユーザー |
- | Ship | IMO No. | Type of ship |
|------|---------|----------------|
| ... | ... | Bulk carrier |
| ... | ... | Passenger ship |

From application to ER submission :

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Download/submit Monitoring Plan

Structure of Monitoring Plan

- Identification of the ship/company
- Identification of CO₂ emission sources on board the ship, and the fuel type used
- Description of the procedures for monitoring voyages, fuel consumption and activity data
- Methodology for closing data gaps
- Procedures for quality control
- Description of data flows
- Identification of responsibilities

Salient Function:

- ❑ Company to register the ships under its management
- ❑ Auto-input ship/company identification, emission sources by NKSHIPS database
- ❑ Download / submit MP
- ❑ Confirm assessment status of MP
- ❑ Download data reporting template for on-board monitoring

Merit :

- ❑ Full use of NKSHIPS data
- ❑ Uniform control of all ships under the management
- ❑ Cut labor cost for MP submission

Download/submit Monitoring Plan

- Input Necessary information for MP (Ship and company info)

NK EUMRV Portal [TRIAL] Ver.1.0.0 - 2017/04/01 US000008 Watanabe Shimpei [Logout](#)

Monitoring Plan

Project | Basic data | Ship data | Fuel | Definition of cargo volume | Fuel type used | Management Process | Confirmation

Filter
Status:

Workflow

Status	Sendback
処理担当者	ClassNK
Last Update	2017/04/13 11:34

システムを利用しない

レポート送信方法

- Reported by cooperated system
Cooperated system :
- Report by NK-EUMRV

報告単位

- Event report and daily report
- Voyage report and daily report

Voluntary measurement items [Save](#)

- FO on laden Voyage
- FO on Cargo Heating(for chemical tanker)
- Fo on dynamic positioning
- The distance travelled and time spent at sea when navigating through ice.

Fuel used in LNG carriers

- LNG only
- LNG and Heavy fuel oil

Actions to be taken

Status	Comment	Actions taken	Last Update

Comment

Revised	2017/04/13 11:16
Test	2017/04/13 11:04

Download/submit Monitoring Plan

- For example, fuel type used

ClassNK EUMRV Portal [TRIAL] Ver.1.0.0 - 2017/04/01 US000008 Watanabe Shimpei Logout

Monitoring Plan

Submit Cancel Revise

Project Basic data Ship data **Fuel** Definition of cargo volume Fuel type used Management Process Confirmation

Type	Title	Caption	Emission Factor	Evidence of emission factor	
HSFO	HSFO	High Sulfur Fuel Oil	3.11440	IMO Values 2012/63[1]	Edit
MDO	MDO	Marine Diesel Oil	3.11440	IMO Values 2012/63[7]	Edit
MGO	MGO	Marine Gas Oil	3.20600	IMO Values 2012/63[3]	Edit
OTH	Bio E	Bio Ethanol	0.00000		Edit

Add Fuel

Download/submit Monitoring Plan

- Download and submission of MP

The screenshot shows the 'Monitoring Plan' page in the NK EUMRV Portal. The page has a green sidebar on the left with navigation options: Monitoring, MP (Monitoring Plan), ER (Emission Report), DoC (Declaration of Conformity), and User Information. The main content area is titled 'Monitoring Plan' and includes tabs for Project, Basic data, Ship data, Fuel, Definition of cargo volume, Fuel type used, Management Process, and Confirmation. The 'Management Process' tab is active. The page contains several sections with red annotations:

- Basic data, reporting:** A red arrow points to the 'Basic data, reporting' section, which contains a link to 'Monitoring Plan_1_BD.pdf'. A red bracket indicates this is the 'System input part Company/ship info. etc)'. A PDF icon with the text 'Merge to M' is also present.
- Management process, methodology:** A red arrow points to the 'Template Download' link. A red bracket indicates this is the 'Manual input part (Company procedures etc)'. Below this is a file upload area with a 'Delete' button and a file named '本編_Manual.pdf'. A red arrow points to this file with the text 'Upload MP after completing all sections'.
- Cover page & Signature:** A red arrow points to the 'Template Download' link. A red bracket indicates this is the 'Cover page of MP to be signed and uploaded'. A red bracket also indicates that 'Procedural document indicate in MP can be uploaded separately'.

Buttons for 'Submit', 'Cancel', 'Revise', and 'Save' are visible at the top right of the page.

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On-board report

- Auto-generation of on-board data reporting template as per MP input data
- Simple excel template
- One-Click Data packaging for sending email

Reporting contents :

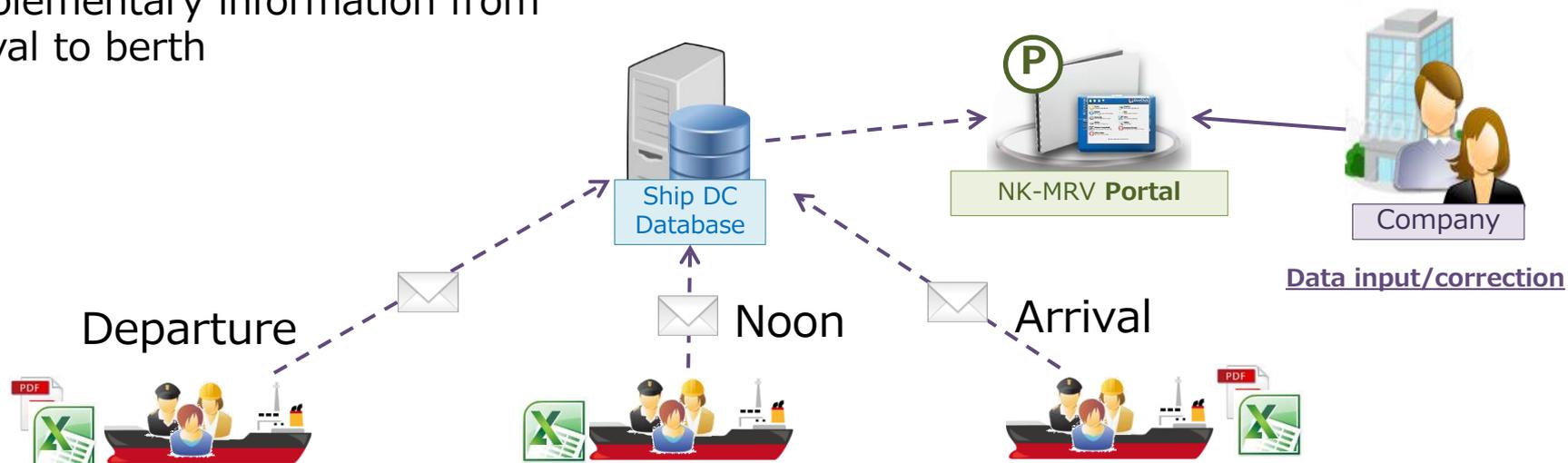
- ✓ Date/Time, Position, Port
- ✓ Fuel Oil Consumption (FOC)
- ✓ Distance sailed, time spent at sea
- ✓ Bunkering info.
- ✓ Cargo info.
- ✓ Navigational info. (RPM, BHP, etc)
- ✓ supplementary information from arrival to berth

Report timing :

- ✓ Noon (mandatory)
- ✓ Dep. (mandatory)
- ✓ Arr. (mandatory)
- ✓ Anchoring(mandatory)
- ✓ Other Event (at any time)

Supporting documents :

- ✓ Logbook
- ✓ Bunker Delivery Note
- ✓ Bill of Laden



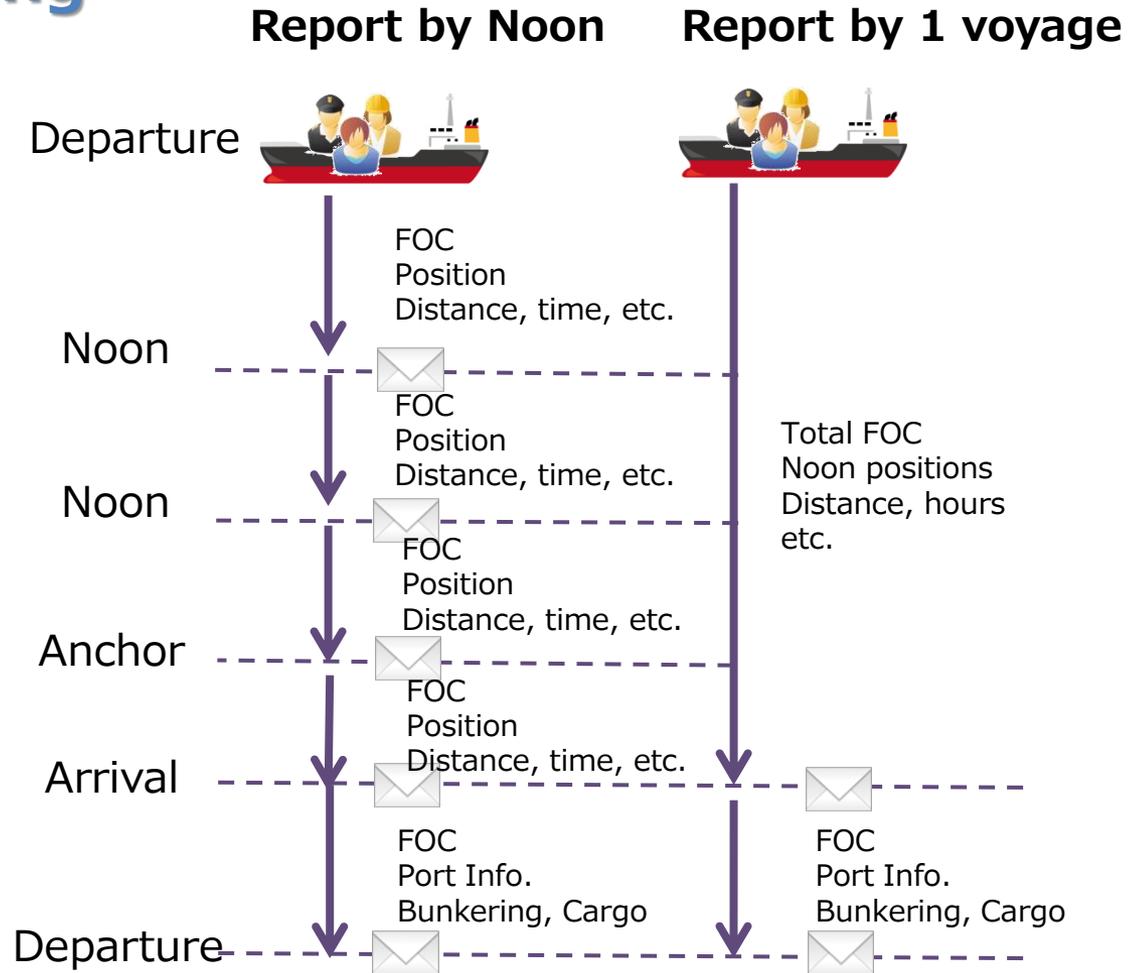
On-board report timing

Report by Noon :

- ✓ Noon
- ✓ Departure
- ✓ Arrival
- ✓ Anchoring
- ✓ Other Events

Report by 1 voyage:

- ✓ At Sea (Arrival)
- ✓ In Port (Departure)
- ✓ Noon



On-board report (Noon and Event)

Sample input

Mandatory	Non Mandatory	No need
-----------	---------------	---------

Reporting basic data								Monitoring Data							
Voyage Info		Time at the report		Position at the report				FOC from last report [MTN]			Distance and time from last report		Voyage state		
Voyage No.	Status	Date	Time	Latitude		Longitude		HSFO	LSFO	LFO	Distance [nm]	Time [hour]	propeller revolution	average BHP	Sea state
X	X	yyyymmdd	0000 to 2359	0000.0000 to 9000.0000	N or S	00000.0000 to 18000.0000	E or W	0000.0	0000.0	0000.0	0000.0	0000.00	0000	00000	0 to 12
1	Departure	20180104	0030	3440.8937	N	13513.3721	E	0.0	0.0	14.0					
1	Noon	20180104	0300	3359.5482	N	13454.1926	E	6.4	0.0	2.4	24.0	2.50	24	1200	2
1	Noon	20180105	0300	3036.7931	N	12851.6438	E	68.2	0.0	14.3	476.0	24.00	78	3800	4
1	Noon	20180106	0300	2353.9874	N	12303.5964	E	72.4	0.0	12.8	488.4	24.00	80	4000	4
1	Noon	20180107	0400	1819.6380	N	11715.5496	E	76.2	0.0	15.8	509.4	25.00	80	4000	3
1	Noon	20180108	0400	0856.6142	N	10952.5810	E	74.3	0.0	14.9	491.3	24.00	78	3800	3
1	Noon	20180109	0400	0231.1598	N	10518.3624	E	71.5	0.0	13.8	488.2	24.00	76	3700	3
1	Anchor start	20180109	0830	0114.0790	N	10355.4706	E	11.4	0.0	3.2	70.4	4.50	48	2000	3
1	Arrival	20180109	0830	0114.0790	N	10355.4706	E	0.0	0.0	0.0	0.0	0.00			
1	Anchor end	20180109	1200	0114.0790	N	10355.4706	E	0.0	0.0	2.9	0.0	0.00			
2	Departure	20180109	2330	0115.3396	N	10344.1146	E	2.2	0.0	0.4					

On-board report (Supporting document)

Sample input (BDN)

PDF attach

Reporting basic data								Bunker									Evidence	
Voyage Info		Time at the report		Position at the report				Port information				Volume [m^3]			Density [MTN/m^3]			File
Voyage No.	Status	Date	Time	Latitude		Longitude		Name of port	UNLOC	EU Port?	Port L/U	HSFO	LSFO	LFO	HSFO	LSFO	LFO	Filename
X	X	yyyymmdd	0000 to 2359	0000.0000 to 9000.0000	N or S	00000.0000 to 18000.0000	E or W	xxxxxxxxxx	ABCDE	Y or N	Y or N	0000.0	0000.0	0000.0	0.0000	0.0000	0.0000	xxxxxxxxxxxxx.yyy
1	Arrival	20180109		0115.3396	N	10344.1146	E	Singapore	SGSIN	N	N	3240	840	480	2.8400	1.3800	1.0500	abcdefghijkl.pdf

On-board report (sending data)

Report	IMO No.	1432543	Name of Ship	King Queen II	Validation	Create zip
---------------	---------	---------	--------------	---------------	------------	------------

Validation

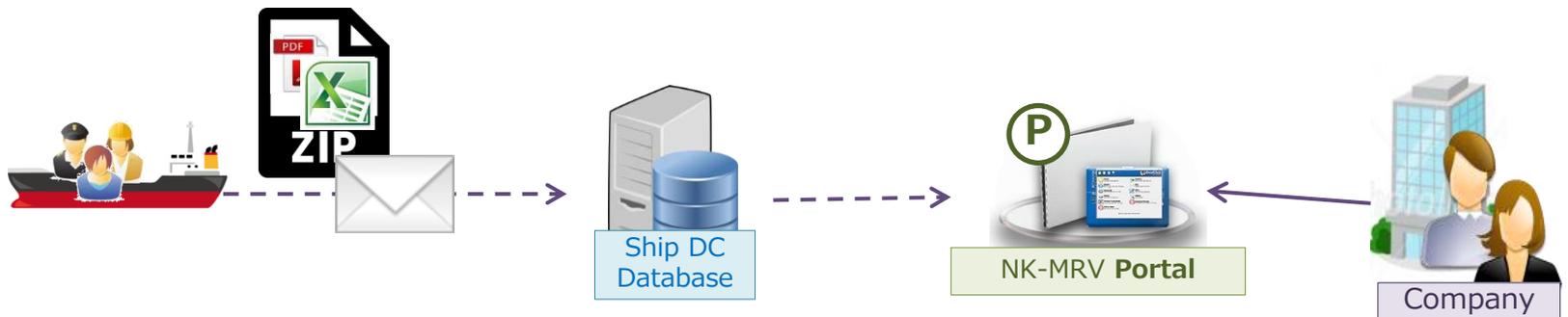
	Meta data	Version	Check data	Check file	Count	
Event	NkmrDepartureStandard	1_00_00	OK		18	Events
ROB	NkmrRobStandard	1_00_00	OK	OK	2	Items
Bunker	NkmrBunkerStandard	1_00_01	OK	OK	4	Items
Cargo	NkmrCargoStandard	1_00_00	NG	NG	5	Items

Create zip

Date	Time	Zip
2018/01/20	14:24:32	1432543_KingQueenII_20180120142432.zip



Packaging monitoring data and supporting documents to Zip file



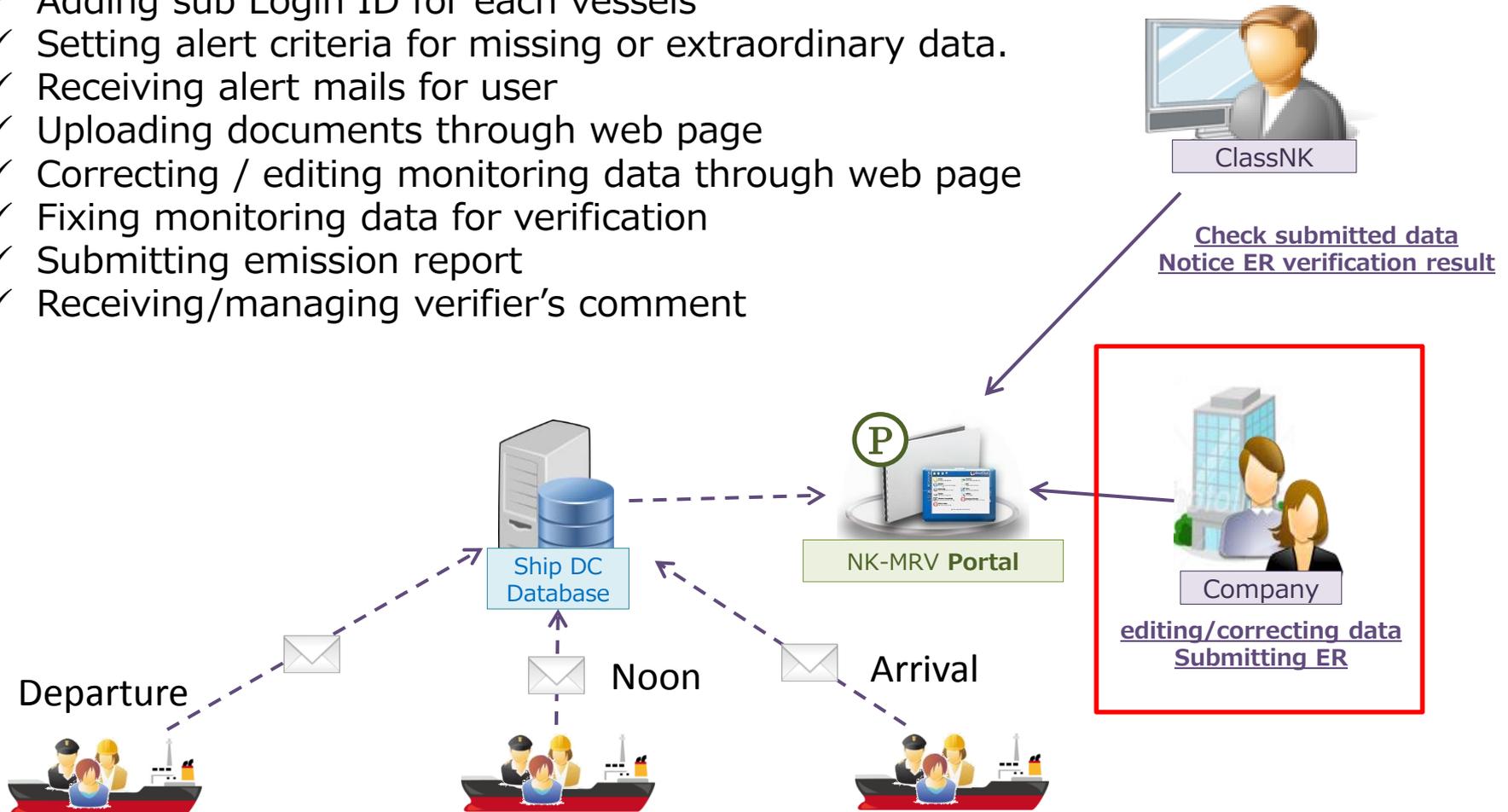
Data input/correction

- Send by e-mail with Zip file from on-board PC
- Data validation function is available

Data management on shore

Function :

- ✓ Adding sub Login ID for each vessels
- ✓ Setting alert criteria for missing or extraordinary data.
- ✓ Receiving alert mails for user
- ✓ Uploading documents through web page
- ✓ Correcting / editing monitoring data through web page
- ✓ Fixing monitoring data for verification
- ✓ Submitting emission report
- ✓ Receiving/managing verifier's comment



Data management on shore

- Confirmation of monitoring data (Voyage List)

NK-MRV Portal Ver. 1.00.00 NK Kaiun Co., Ltd. [Logout](#)

Voyage Data

Ship: Year:
 EU Port only Exclude Submitted voyage

1 2

Error mark	V/No.	Departure			Arrival				
		Arr. Time (UTC)	Dep. Time (UTC)	Port	EU	Arr. Time (UTC)	Port	EU	
<input checked="" type="checkbox"/>	1	2017/12/29 15:48	2017/12/30 18:48	SINGAPORE		2018/01/06 14:50	MUMBAI		
<input checked="" type="checkbox"/>	2	2018/01/06 14:50	2018/01/08 18:38	MUMBAI		2018/01/19 05:58	SUEZ		
<input type="checkbox"/>		3	2018/01/19 05:58	2018/01/19 21:58	SUEZ		2018/01/24 08:24	FIUMICHINO	<input type="radio"/>
<input type="checkbox"/>		4	2018/01/24 08:24	2018/01/25 05:35	FIUMICHINO	<input type="radio"/>	2018/01/28 15:04	GIBRALTAR	<input type="radio"/>
<input type="checkbox"/>		5	2018/01/28 15:04	2018/01/30 18:14	GIBRALTAR	<input type="radio"/>	2018/02/02 18:13	BILBAO	<input type="radio"/>
<input type="checkbox"/>		6	2018/02/02 18:13	2018/02/12 15:24	BILBAO	<input type="radio"/>	2018/02/21 04:59	SOUTHAMPTON	<input type="radio"/>
<input type="checkbox"/>		7	2018/02/21 04:59	2018/02/23 05:39	SOUTHAMPTON	<input type="radio"/>	2018/02/24 11:24	BOSTON	
<input checked="" type="checkbox"/>		8	2018/02/24 11:24	2018/02/25 14:55	BOSTON		2018/03/02 16:38	RIO DE JAN EIRO	
<input checked="" type="checkbox"/>		9	2018/03/02 16:38	2018/03/04 12:11	RIO DE JAN EIRO		2018/03/18 14:15	MUMBAI	
<input checked="" type="checkbox"/>		10	2018/03/18 14:15	2018/03/20 15:25	MUMBAI		2018/03/30 08:28	SINGAPORE	
<input checked="" type="checkbox"/>		11	2018/03/30 08:28	2018/04/03 09:04	SINGAPORE		2018/04/06 03:15	BUSAN	
<input checked="" type="checkbox"/>		12	2018/04/06 03:15	2018/04/07 05:55	BUSAN		2018/04/09 14:46	CHIBA	
<input checked="" type="checkbox"/>		13	2018/04/09 14:46	2018/04/11 13:41	CHIBA		2018/04/23 04:21	SUEZ	
<input type="checkbox"/>		14	2018/04/23 04:21	2018/04/24 07:05	SUEZ		2018/04/29 18:04	GIBRALTAR	<input type="radio"/>
<input type="checkbox"/>		15	2018/04/29 18:04	2018/04/30 14:04	GIBRALTAR	<input type="radio"/>	2018/05/08 12:12	AMSTERDAM	<input type="radio"/>

Import Voyage Data

Template Download

Error check



Data management on shore

- Confirmation of monitoring data (Tracking data)

NK-MRV Portal Ver. 1.00.00 NK Kaiun Co., Ltd. AX0010 NK Kaiun Co., Ltd. Logout

Voyage data / Monitoring V/No. 14 [SUEZ / GIBRALTAR] Next

Port: Cargo*: Distance*: Fuel*:

V/No.

Distance: nm (3,663.4 km) Time: h

Distance through ice: nm (????? km) Time through ice: h

Add New

Rep. Time(UTC)	Lat./Long.	Distance	Time	Speed	Dir.
2018/04/24 07:05	29.94N, 32.57E				
2018/04/24 12:00	31.81N, 31.73E	72.3 nm	60.5	14.5 knot	312° 11'
2018/04/25 12:00	34.74N, 23.11E				294° 24'
2018/04/26 13:00	35.08N, 15.46E	388.5 nm	340.5	16.2 knot	291° 41'
2018/04/27 12:00	47.80N, 09.37E	830.9 nm	750.0	36.1 knot	339° 21'
2018/04/28 12:00	37.84N, 03.25E				271° 05'
2018/04/29 12:00	35.91N, 03.03W				254° 13'
2018/04/29 18:04	36.13N, 05.35W	67.5 nm	55.9	11.3 knot	279° 15'
Total		2,785.1 nm	7,859	21.3 knot	285° 45'

Adjustment distance from arrival to berth: nm (????? km)

Adjustment time from arrival to berth: h

MP View

Save

Data management on shore

- Confirmation of monitoring data (FOC)

NK-MRV Portal Ver. 1.00.00 NK Kaiun Co., Ltd. AX0010 NK Kaiun Co., Ltd. Logout

Voyage data / Monitoring V/No. 14 [SUEZ / GIBALTAR] Next

Port: Cargo: Distance: Fuel:

V/No. Save Add New

Place	Time(UTC)	HSFO	LSFO	MDO	LPGP	Ave. propeller revolution	Ave. BHP	Sea State
Departure [SUEZ]	2018/04/24 07:05	4.8	0.0	0.0	0.0	100	100	0
At sea	2018/04/24 12:00	14.0	0.0	0.0	0.0	200	200	1
At sea	2018/04/25 12:00	50.2	0.0	0.0	0.0	300	300	2
At sea	2018/04/26 13:00	-44.9	0.0	0.0	0.0	200	200	3
At sea	2018/04/27 12:00	141.4	0.0	0.0	0.0	100	100	4
Cargo Heating	2018/04/27 13:00	10.0	0.0	0.0	0.0			
At sea	2018/04/28 12:00	50.3	0.0	0.0	0.0	100	100	5
At sea	2018/04/29 12:00	53.0	0.0	0.0	0.0	200	200	6
Arrival [GIBALTAR]	2018/04/29 18:04	16.5	0.0	0.0	0.0	300	300	7
Adjustment from arrival to berth	2018/04/29 18:10	1.5	0.0	0.0	0.0	300	300	7
Consumption at sea		(-0.0)	(-0.0)	(-0.0)	(-0.0)			
Dynamic positioning	2018/04/30 13:00	0.0	20.0	0.0	0.0			
Bunkered		-642.5	128.0	128.0	-128.0			
Departure [GIBALTAR]	2018/04/30 14:04	2.7	0.0	0.0	0.0			
Consumption In port		(-0.0)	(-0.0)	(-0.0)	(-0.0)			
ROB								
Departure [SUEZ]	2018/04/24 07:05	4.8	0.0	0.0	0.0	100	100	0
At sea	2018/04/24 12:00	14.0	0.0	0.0	0.0	200	200	1
At sea	2018/04/25 12:00	50.2	0.0	0.0	0.0	300	300	2
At sea	2018/04/26 13:00	-44.9	0.0	0.0	0.0	200	200	3

Bunkered

Bunkered Volume [GIBALTAR]	HSFO <input type="text" value="642.5"/>	LSFO <input type="text" value="0"/>	MDO <input type="text" value="0"/>	LPGP <input type="text" value="0"/>	BDN (Volume and Density)	X2852340_Fuel_20180501.pdf X3284932_Fuel_20180501.pdf
Bunkered Density [GIBALTAR]	HSFO <input style="background-color: #d4edda;" type="text" value="???"/>	LSFO <input type="text" value="0"/>	MDO <input type="text" value="0"/>	LPGP <input type="text" value="0"/>		

Data management on shore

- Confirmation of monitoring data (Tracking data Noon vs AIS)

NK EUMRV Portal [TRIAL] Ver.1.0.0 - 2017/04/01 US000008 Watanabe Shimpei [Logout](#)

Monitoring ←

- Status
- Voyage Data
- Noon report
- Inmarsat / AIS
- BDN
- B/L
- Other evidence

MP(Monitoring Plan)

- Status *1 new items.
- List

ER(Emission Report)

DoC(Declaration of Conformity)

User Information

IMO No. Ship Status

最新データのみ表示

Map showing ship tracking route (AIS Position and Noon Position) across the Indian Ocean and Southeast Asia, including countries like India, Bangladesh, Myanmar (Burma), Laos, Thailand, Cambodia, Sri Lanka, and Indonesia. The route is marked with white circles and red stars. Distances shown: 6,011.62 km and 1,000.00 km.

Data management on shore

- Confirmation of monitoring data (Dep/Arr timing Noon vs AIS)



From application to ER submission :

Application/Management

- Application for assessment / verification
- Registration of applicable ships
- Setting access control

Monitoring Plan

- Download of MP template
- Input Company/Ship data
- Submission for assessment

Monitoring of data

- download on-board data reporting template
- Sending monitoring data and Supporting documents
- Managing/correcting accumulated data
- Setting alert criteria for the missing or abnormal data

Emissions Report

- Checking and Aggregating annual data
- Submission for verification

- **Open web site from May 2017**
- On line application from ClassNK web page
- Trial use is available for MP and monitoring of data
- **Available from May 2017**
- Data connection with “NK-SHIPS”
- Monitoring data can be sent to Portal by ships from Sep 2017
- Simple excel format for on-board
- Data linkage between on-board Ablog system and MRV portal is possible
- **01st ER submission from Jan 2019**

Emissions Report

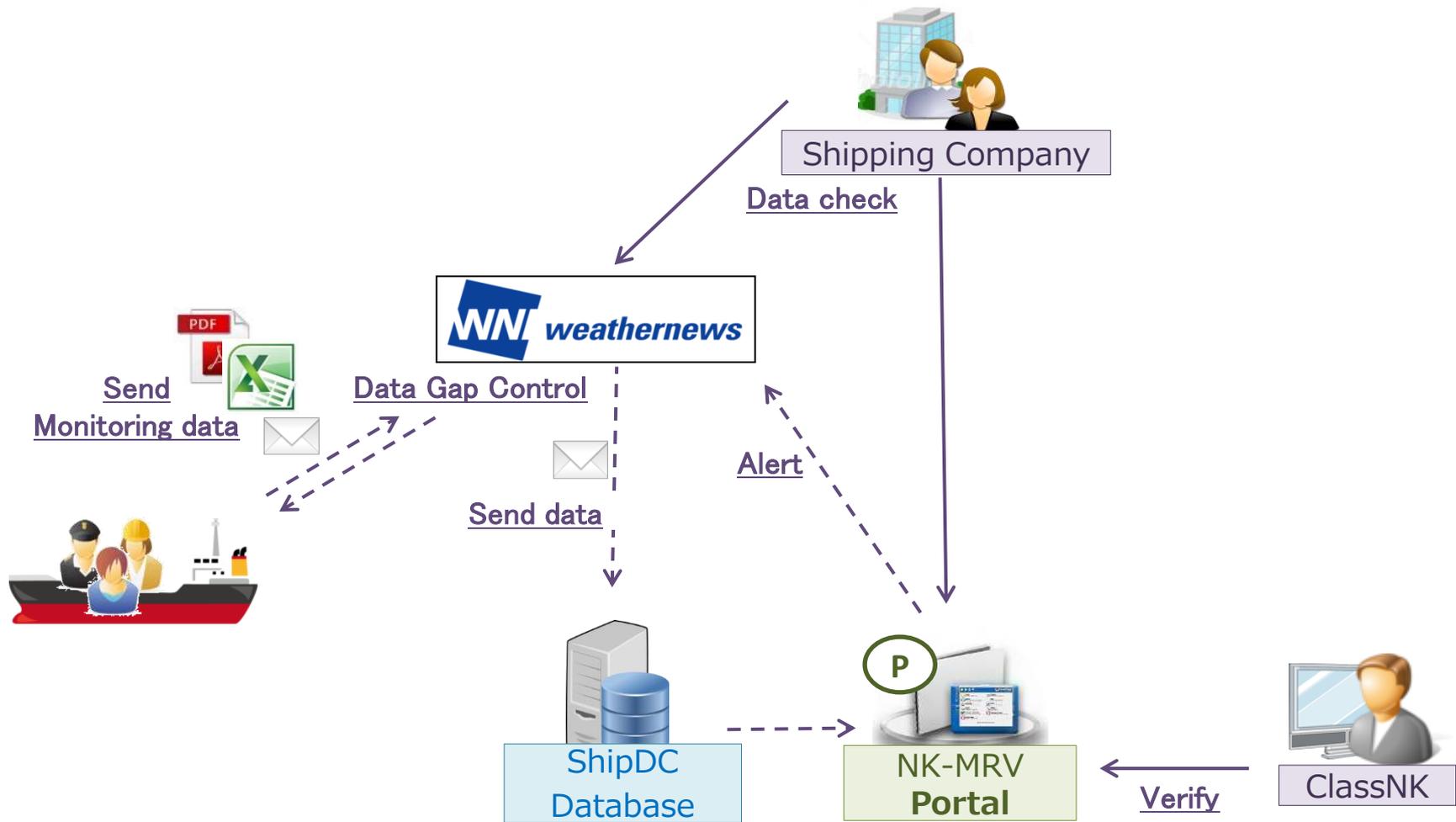
Planned Functions:

- Support making Emissions report
- Submission of ER to NK
- Receiving verification result and DOC
- Submission of verified ER from MRV portal to MRV THETSIS

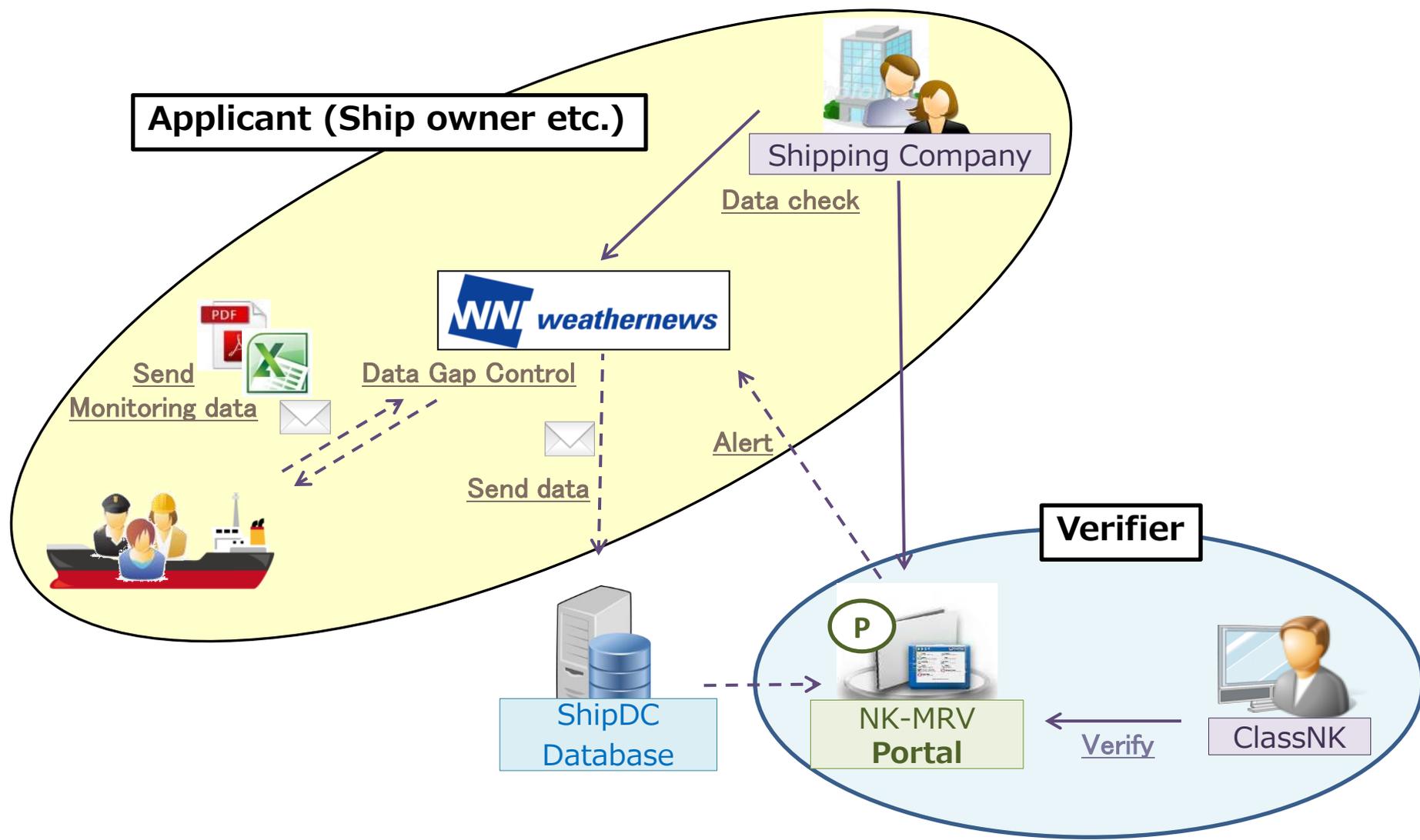
Coming Soon!

Merit of ClassNK MRV Portal

- Reducing on-shore work load by data aggregation and management in line with EU MRV regulation
- Reducing on-board duplicated work by voyage data input in line with company's workflow or Ablog data connection
- Appropriate information sharing between on-board and shore side.
- Data quality/accuracy improvement by Miss alert function
- Reducing workload of Emissions report making
- Reducing verification cost by verifier = reduce verification fee

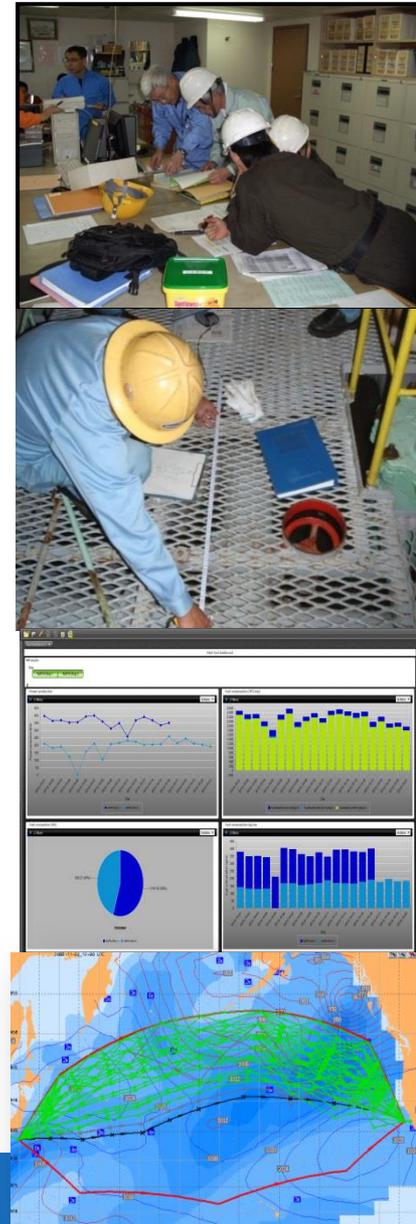


Position of each player



Consulting Service for EU MRV regulation

**MRV-Monitoring Reporting Verification Seminar
Glyfada Golf Gardens
27th April, 2017
ClassNK Consulting Service Co., Ltd.**



<Establishment>

ClassNK Consulting Service Co., Ltd (NKCS) was established in Dec. 2011 as independent consulting company

<NKCS mission>

Supporting the implementation of various needs in marine industry by providing wide range of maritime consulting services

<NKCS main consulting content>

- Delivering IT-driven technology service

ClassNK CMAXS / ClassNK NAPA GREEN

- Supporting service in relation to recent regulation

BWMS / Ship Recycling Convention / SEEMP

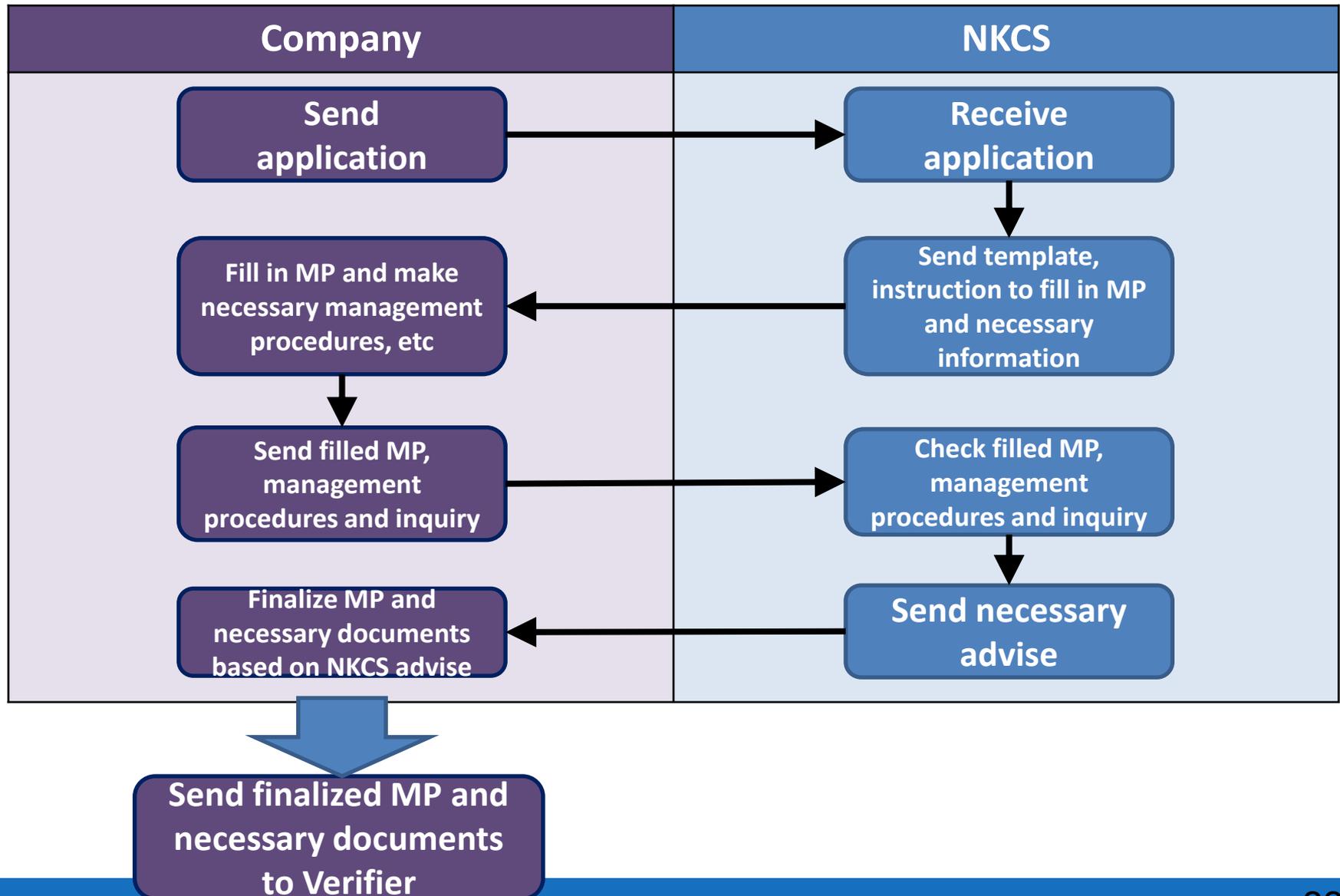
- Other consulting service

Bunker Fuel Oil Analysis / FROSIO / Superintendent Service

Required action and NKCS service for EU MRV

Required action by Company	Consulting service by NKCS	Verification service by Verifier
1. Preliminary stage <ul style="list-style-type: none"> Setting up and making Monitoring Plan Submitting Monitoring Plan to verification body for its verification 	NKCS offers advisory consulting service to set up Monitoring Plan <ul style="list-style-type: none"> Providing standard template Providing instruction to set up Monitoring Plan Providing necessary advise to make Monitoring Plan 	<ul style="list-style-type: none"> Verification of Monitoring Plan
2. Monitoring stage <ul style="list-style-type: none"> Management of operational data and its monitoring based on Monitoring Plan 	-	
3. Reporting stage <ul style="list-style-type: none"> Making Emission Report Submitting Emission Report to verification body for its verification 	-	<ul style="list-style-type: none"> Verification of Emission Report Issue DOC

NKCS service flow



1. To provide Monitoring Plan (MP) Template and Instruction to fill in MP

Excel file format is provided

Template for monitoring plan

Part A Revision record sheet

Version No.	Reference date	Status at reference date (1)	Reference to Chapters where revisions or modifications have been made, including a brief explanation of changes.	Revision record is to be described in this table.
				Version No: Fill in version number of Monitoring plan. Reference date: Fill in establishment date and revision date of Monitoring plan Status at reference date: Select one of status of Monitoring plan as 'Working draft', 'Final draft submitted to the verifier', 'Assessed', 'Modified without need for reassessment' Reference to Chapters: Full in contents of changes

(1) Select one of the following categories: 'Working draft', 'Final draft submitted to the verifier', 'Assessed', 'Modified without need for re-assessment'.

Part B Basic data

Table B.1. Identification of the ship:

Table B.1. Identification of the ship:		Ship particular is to be described in this table.
Name of the ship		Fill in the name of subject vessel
IMO identification number		Fill in IMO number of the vessel
Port of registry		Fill in port of registry of this vessel.
Home port (if not identical with port of registry)		Fill in home port (if not identical with port of registry)
Name of the shipowner		Fill in name of ship owner./ management company
IMO unique company and registered owner identification number		Fill in IMO unique company's identification number and registered owner's identification number.
Type of the ship (1)		Select one of ship type specified in (1) outside the column.
Deadweight (in metric tonnes)		Fill in deadweight.

Instruction is described in MP Template

2. To provide reply on inquiry and necessary advise

Inquiries for Monitoring Plan

Excel sheet format is provided.

Part A Revision record sheet

Version No.	Reference date	Status at reference date (1)	Reference to Chapters where revisions or modifications have been made, including a brief explanation of changes.	Inquiries	NKCS comment and reply

(1) Select one of the following categories: 'Working draft', 'Final draft submitted to the verifier', 'Assessed', 'Modified without need for re-assessment'.

Part B Basic data

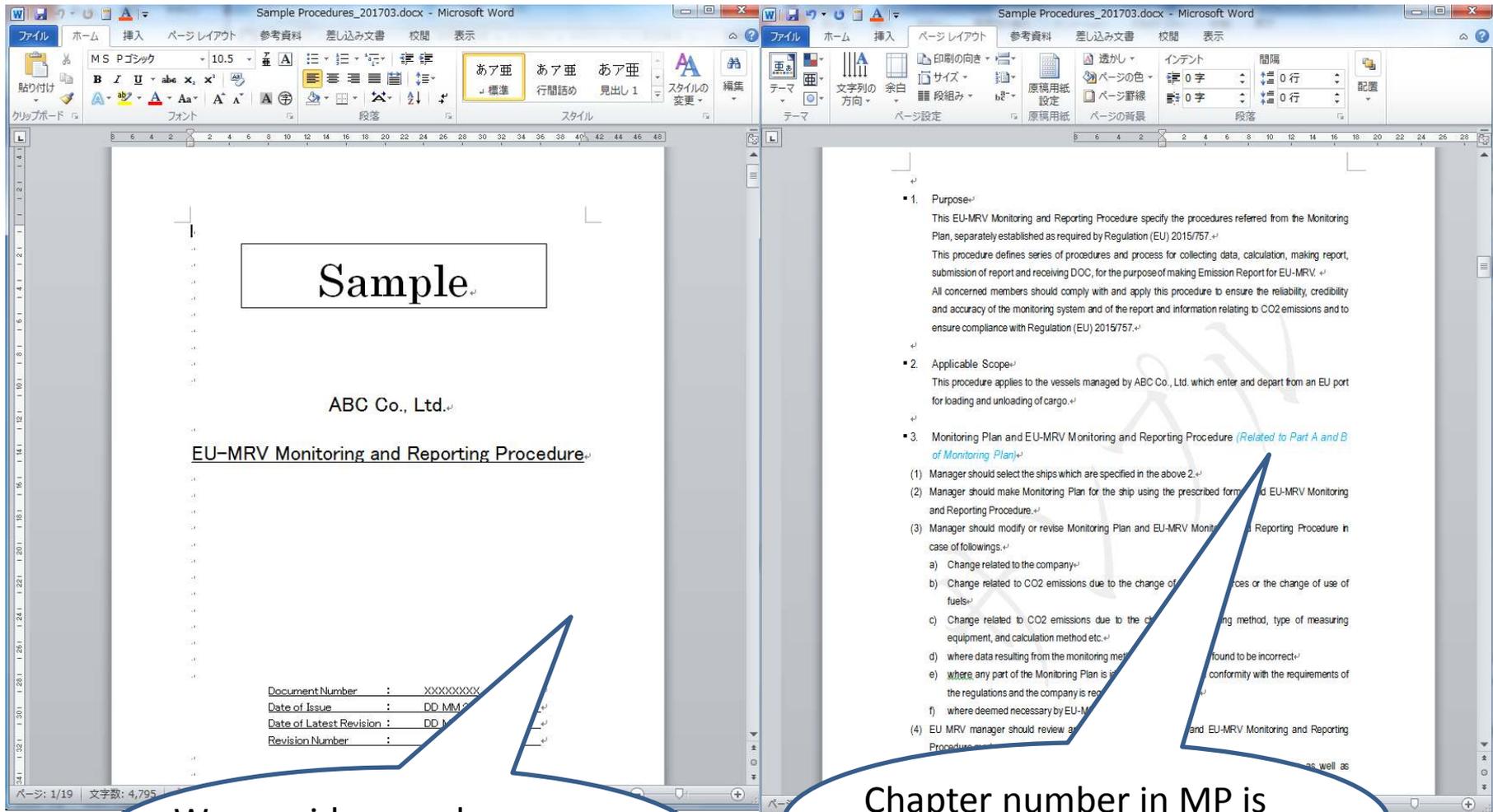
Table B-1 Identification of the ship:

	Inquiries	NKCS comment and reply
Name of the ship		
IMO identification number		
Port of registry		
Home port (if not identical with port of registry)		
Name of the shipowner		
IMO unique company and registered owner identification number		
Type of the ship (1)		
Deadweight (in metric tonnes)		
Gross Tonnage		
Classification Society (voluntary)		
Ice class (voluntary) (2)		
Flag State (voluntary)		

Client can provide inquiry on MP Template.

We provide reply on inquiry and comment

3. Sample management procedure



We provide sample management procedure

Chapter number in MP is described for reference

Please feel free to contact ClassNK Consulting Service Co., Ltd, if you have any inquiries about our consulting service for EU MRV.

We will offer best proposals about our services for your fleet after receiving necessary information.

< **ClassNK Consulting Service Co., Ltd** >

TEL: +81-3-5226-2290

email: mrv.support@classnkcs.co.jp

URL : www.classnkcs.co.jp

A person wearing a white lab coat is looking at architectural blueprints spread out on a table. The scene is brightly lit, and the person's hands are visible on the papers. The text 'THANK YOU' is overlaid in a large, bold, blue font, with a blue circle around the letter 'O' and a horizontal line passing through it.

THANK YOU