



Pacific Asia Lift and
Escalator Association

Newsletter

Vol - 20

Issue – 01

August 2022

Safe, Quality
Products for the
A.P Lift Industry
and the Public

Regional and
International
Code Updates

Industry news
from Asia
Pacific and
Global regions



Graham Worthington

PRESIDENT'S MESSAGE

7 months ago we celebrated the coming of 2022 and for our Asian friends and colleagues, Chinese New Year (The year of the Tiger). On the topic of the Tiger, one of our good friends from the Fire & Rescue Department of Malaysia (BOMBA), who are esteemed Honorary members of PAEA said to me the following :

"The Tiger stands for bravery, confidence and strength which are qualities we all need to carry us through the difficult times we are facing!"

This to me was a very appropriate statement given that for over 2 1/2 years, the global pandemic has affected and challenged every aspect of our lives and set a course for some very difficult times indeed.

Given the events of the past 2 years, it is also a good time to reflect on, and be proud of the tremendous effort put in by all industry members and respective National Government authorities in Asia, ensuring the safety of the public and our lift technicians who have installed, maintained and serviced the equipment in spite of significant challenges during this pandemic.

As we know lifts have always been indispensable for providing safe and efficient transportation in buildings, and in particular residential apartments, hospitals/medical facilities, shopping centers and office towers. However, during this pandemic lifts particularly in the more urbanized Asia Pacific cities, played an even more critical role in ensuring people could carry out vital activities such as shopping for essential items, receiving deliveries of the same, medical and emergency services personnel need fully-functioning lifts in order to reach and treat those that are ill or in need of urgent medical treatment, which is more so important for the elderly and physically challenged, where their restricted movements and isolation can be for weeks on end.

. Asian / China industry member companies and National Government authorities during the early onset of the pandemic worked closely and diligently together in providing education and training for technicians focusing on their health and wellbeing, with the provision of special working instructions aimed at mitigating risks when working on site during the pandemic. Industry member companies also provided appropriate personal protective equipment (PPE) and ongoing work instructions, inclusive of national regulations introduced by regional government authorities. The lift industry members and government authorities more than proved their commitment to prioritizing the health and safety of the public and lift technicians alike during the pandemic

It is said “necessity is the mother of invention”!

This could not be truer for the global pandemic. Elevator companies and regulators around the world have risen to the challenge of ensuring safe travel of passengers by accelerating research, development and release of unique touch less features, destination dispatching and antibacterial technology to name a few, that significantly reduces the risk of transmission of the virus, which has certainly changed the way people interact with lifts and will also do so in the future.

The pandemic has also not affected the pursuit and uptake of up-to-date codes, harmonization of CEN and ISO codes, with many Asian / China regulators and standards bodies also working on standards for RM & D, IoT and Cyber security. Due to travel restrictions, PALEA has not been able to conduct our normal informational seminars, which saw large numbers of attendees prior to the outbreak of Covid. In 2019, more than 400 lift industry members, regulators, government bodies, and other association members attended PALEA seminars across Asia Pacific and China. In the event travel does not resume soon, PALEA Management will start looking to conduct Seminars by Webinar on the latest updates on codes, standards and associated activities. We will keep you posted on this.

Derek Roberts our esteemed Treasurer and great friend has retired from Schindler after 51 years in the lift industry and as such will be stepping down from the PALEA management team. Not only from a PALEA perspective, but also from the Global lift industry as a whole, it goes without saying that Derek's significant contribution, dedication and hard work has added much to the programs and initiatives for improved safety, up to date codes, and engineering of our products.

Derek has also worked tirelessly on numerous programs (too many to name) with Asian / China regulators and associations supporting the implementation of the same for over 29 years. I know that the PALEA members, and everyone who knows Derek will surely miss his support, delightful personality and expertise in the lift and escalator industry overall.

With Derek leaving PALEA, I am pleased to announce that Stefano Folli will move into Derek's position on the management committee. Stefano has been with Schindler for over 30 years and has a very strong engineering and codes background, and will be a valuable member for PALEA.

The PALEA management committee wishes Derek and his lovely wife Ann, a very happy and long retirement and also welcomes Stefano to the PALEA committee.

In closing I would to thank all committee members for their tremendous effort and hard work in supporting many projects in Asia Pacific / China, particularly during the difficult times presented by COVID

EDITORIAL



N Sundar

Management Committee
Member & Editor
PALEA

While we continue to drive our actions to achieve our objectives, recent pandemic situation has given a temporary pause for a face-to-face meet, however we continue to strive our actions virtually...

Recent trend in the market seems to be on the positive side and development is more towards digitalization side, and in the coming years, our focus will be more towards this.

Thank you for all the support, and expecting your continued feedback for improvement...

JOHN INGLIS OAM – A Milestone 80 years of Contribution to the Lift Industry

John Inglis OAM (Medal of the Order of Australia) has been involved in all aspects of the lift industry for an unsurpassed eight decades.

His reputation for incredible knowledge in the industry and his untiring work in the promotion of all facets of elevator products, engineering principals, codes and standards and many other related topics, too many to mention, is not just restricted to Asia Pacific, but also on the Global platform.

Starting his lift career in 1942 as an apprentice with Arnold Engineering & Lifts, he successfully completed his technical training at Sydney Technical College. He has been a member of the Australian Elevator Association Technical committee for many years, prior to becoming their Honorary technical advisor. Outside of the industry John had a strong passion for the Scouting movement and in 1945 took on the role as a Scout leader and a Leader Training officer. Between 1954 – 1960, John was responsible for the design and installation of longest travel passenger lift in the world (1960) at the "Tumut 1" power station. It took the French contractor 5 years to build the underground power station and a year for the lift installation.

It was around that time in 1954 that he started collecting Elevator World magazines, of which he now has over 800 publications all in great condition. Not surprisingly, John is the Elevator World correspondent for Australia. Given John's proven expertise in engineering, in 1960 he was appointed Engineering Manager and Director of Arnold Engineering & Lifts Pty Ltd. In the mid-sixties, John designed a unique pneumatically operated hydraulic goods platform where the control circuit had no electrical wiring, only airlines and air switches. This was due to the platform being installed in an explosive environment.

In 1966 John was invited to join the Standards Australia ME4 lift committee and is still an active member. During the past 55 years he has been chairman of many sub committees and since 1997 has also represented Australia on ISO TC178- WG4 & WG6 committees. Taking on a world trip in 1970 for a 7-week industry educational survey, John got to meet old friends and formed many other friendships in lift industry companies. In total John has visited over 180 lift suppliers and lift manufacturers around the world with only South Africa and South America not being visited.

Joining the Lift Engineering Society of Australia (LESA) 1986, and being elected as president for several years, John is now a life member. In the same year he also became a member of the International Association of Elevator Engineers (IAEE) and was on the executive committee for many years and is now President Emeritus. John has been IAEE Pacific Region Coordinator since 1990.



In 1975 Arnold Engineering was acquired by OTIS Elevators and John joined their engineering department. In 1992, and after 50 years of combined service with Arnolds and Otis John retired from Otis but not from the industry.

John began working with his son who at the time owned a business that sold and manufacturing lift equipment. Following the very sad and tragic death of his son, John still did not retire but started a company "Amron Lift Resources" and specializes as a Lift & Code consultant, which he still manages today.

Most recently the Hong Kong branch of IAEE invited John to assist them in preparing a proposal to the Hong Kong Government EMSD for adoption of EN 81 -20/50 into the Hong Kong COP, and worked on the committee with the EMSD, LECA and PALEA.

John is also the IAEE representative to the Hong Kong Branch and attends their bi-annual meetings. Joining the Toastmasters International in 1998, John was elected District Governor for NSW during 2008 and 2009.

In closing, John's admirable character, honesty, sincerity, respect for others, lead by example persona, and tremendous contributions to the community and the lift community are just a fraction of the reasons why he is held in such high esteem by so many. The award of the OAM on Australia Day 1989 is further testament of this.

All of us in PALEA congratulate and thank John for his incredible 80 years of contribution to the Asia Pacific and Global lift communities and on many occasions PALEA projects too. We look forward to further programs we work on together.

Johns Formal Awards include:

Order of Australia Medal (OAM) 1989
Standards Australia - Standards Award 1994
Lift Manufacturers Association of Australia- Certificate of Appreciation. 1995
Life Member - Lift Engineering Society of Australia (NSW) - 1997
Scout Association of NSW 60 - year service award.

Hong Kong EMSD Gazettes " State of the Art" Design Code of Practice for Lifts and Escalators

In its efforts to support harmonization of Lift and Escalator codes, and bring the latest "state of the art" safety standards and codes to Asia Pacific, PALEA often actively engages with Government authorities, regulators, local lift associations and other industry stakeholders.

One very successful collaboration was the recent updates to the Hong Kong Design Code for Lifts and Escalators issued by the EMSD of Hong Kong.

Starting in 2017, PALEA worked with LECA, EMSD and IAEE in updating the above standard in line with EN81-20/50:2014. After numerous work-shops, the project culminated in the release by the EMSD of the HK Design Code of Practice for Lifts and Escalators : 2019 Edition. Gazetted on the 30th of August 2019 with a implementation grace period ending on 1 June 2020.

Modifications adapting EN81-20/50 to local requirements resulted in 61 items added to Appendix II and covered areas such as:

- Language and definitions
- Integrating items covered by the HK Buildings Department Code of Practice for the Building Works for Lifts and Escalators
- Fire regulations
- Door protection
- Trapdoors in lift cars
- Lift car top balustrades
- Emergency lighting, alarm and communications
- Vehicle and Freight lifts
- ARD and voltage dips

(for further details see Appendix II in the CoP)

Following this successful collaboration, the same parties embarked on another significant program, updating Section E: Part 4 of the HK Design Code of Practice which covers Escalators, to the widely used EN115 – 1: 2017 standard.

Workshops conducted a clause by clause review, making modifications as required and resulted in publication the EMSD HK Design Code of Practice : 2021 Edition. Gazetted on December 31, 2021 and effective for all tenders after October 1, 2022.

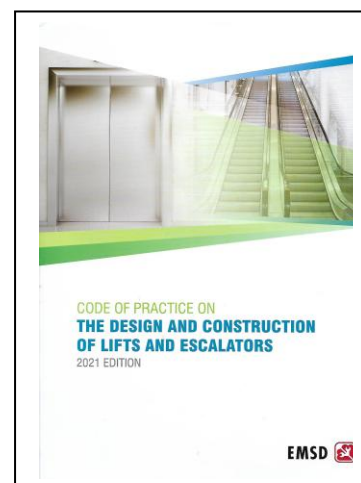
62 items were modified and summarized in Appendix III and covers areas such as :

- Language and definitions
- Deleting items covered by the HK Buildings Department Code of Practice for Building Works for Lifts and Escalators
- Shelter walls
- Auxiliary brakes
- Skirts and brushes
- Clearances around escalators
- Strength of handrails on Public Escalators
- Step to skirt object detection.
- Electrical requirements
- Signage and anti-climb barriers
- No bi-directional auto start

To further enforce the EMSD's drive for using the latest and most up to date codes, they also published a new edition of the Code of Practice for the Electricity (Wiring) Regulations . This new edition was fully implemented on 31 December 2021 to replace the 2015 edition.

PALEA applauds the initiatives and drive of the combined and EMSD, LECA and IAEE teams all of whom PALEA has had a very close working relationship for more than two decades.

PALEA also welcomes the opportunity to support other Countries in Asia Pacific in their journey to updating their Lift and Escalator standards ensuring the most latest world class safety.





File photo: Korea Lift Expo 2018

The 2021 International Lift EXPO Korea was held September 14 -16, in the 5th hall of KINTEX Exhibition Hall 1, Goyang-si, Gyeonggi-do, with more than 100 domestic and foreign elevator-related companies participating in the event as well as domestic and international conferences which introduced the status of overseas markets, codes and standards and other lift and escalator related topics. **Hosted by the Ministry of the Interior and Safety**, co-hosted by the Korea Elevator Safety Agency, the Korea Lift Association, and the industry members exhibitions, the 2021 International Lift Expo Korea was again, a very successful event.

The EXPO achieved tremendous results in promoting the domestic lift industry, lift and escalator technological advancement and as always focused on safety culture with education for the public and lift industry members.

The EXPO was held under very high health requirements due the challenges faced by COVID 19, therefore the EXPO was split as an "online" and "offline" event. The lift exhibition hall used to promote the lift industry was held offline, with domestic and foreign conferences, overseas buyer counseling, job briefing, and public participation events being held online. **High-intensity quarantine measures were also established** such as social distancing by quarantine authorities, limiting the number of people entering the exhibition hall at the same time, and expanding the separation distance between booths.

The 2021 International Lift Expo KOREA

Even with these limitations, domestic and international buyer consultations so far have resulted in agreements and contracts worth more than 12.5 billion won (USD 10.2 million). 12 domestic and foreign online conferences attracted 1,675 attendees which focused on the promotion of domestic and regional lift in industries, Asia- Pacific codes and standards, CEN codes and standards, marketing research, Vietnamese lift systems, market revitalization and establishment of very high safety culture.

An online job briefing session, in which five companies, including the corporation participated, was also successfully completed. Further to the online conferences, 33,400 people participated in other online events such as safety quiz competitions and safety video educational events aimed at enhancing lift safety awareness. This was a record for the number of people from previously held events, and certainly achieved great results in promoting the lift industry and lift safety culture.

Visitors to the exhibition were treated to new and advanced technologies such as robot-linked smart lifts with artificial intelligence (AI), "state of the art" technologies that call lifts without button manipulation, antiviral technologies with sterilization functions, and remote safety management systems using IoT and big data analytic platforms which optimizes their processes.

Lee Yong-pyo, chairman of the Expo Organizing Committee (chairman of Korea Elevator Safety Agency), said, "**The 2021 International Lift Expo Korea was held successfully amid the difficult situation of COVID-19,**" adding, "I hope this expo will lead to the promotion of the domestic lift industry and the spread of safety culture."

The next EXPO is scheduled for November 2023!

Regional Code Update

Australia

- AS1735 Part 1.2 : 2021- Lifts for the transport of persons and goods
- AS1735 Part 1.3 : 2021- Design rules, calculations, examinations and tests of lift components
- AS1735 Part 1.4 : 2021- Rules for improvement of safety of existing lifts
- AS1735 Part 1.15 : 2021- Vertical lifting platforms for the transport of persons with impaired mobility

India

- IS 1761 Part 1 : 2021 - Measurement of Ride Quality for Lifts
- IS 1761 Part 2 : 2021 - Measurement of Ride Quality for Escalators & Moving Walks
- IS 17106 Part 1 : 2019 - PESSRAL , Identical adoption of ISO 22201-1 : 2017
- IS 17106 Part 2 : 2022 - PESSRAE , Identical adoption of ISO 8102 - 6 : 2019
- IS 17106 Part 1 : 2022 - Life Cycle Guideline , Identical adoption of ISO 22201-3 : 2016
- IS 17806 : 2022 - Guide Rails for Lifts and CWT's, Identical adoption of ISO 7465 : 2007
- IS 17900 Part 6 : 2022 - Maintenance of Lifts
- IS 17900 Parts 1 & 2 : 2022 - Based on ISO 8100 Parts 1 & 2 modified with some local requirements in order to suit the Indian Market.
- IS 17805 Part 1 : 2022 - EMC (Emission), Identical adoption of ISO 8102-1 : 2020
- IS 17805 Part 2 : 2022 - EMC (Immunity) , Identical adoption of ISO 8102-2 : 2021

Hong Kong

- The Code of Practice (COP) for Design and Construction of Lifts and Escalators : 2021
The new COP Section 4 now incorporates EN115-1:2017
- The Code of Practice (COP) for Energy Efficiency of Building Service Installation: 2021
- The Code of Practice for Electricity (Wiring) Regulations : 2020

Singapore

- Singapore Code of Practice - Remote Monitoring and Diagnostics - Public comments closed.

PESSRAL - IS 17900

The adoption of IS 17900 will permit the latest technology of PESSRAL to be used in lift controls.

PESSRAL is the acronym for Programmable Electronic Systems in Safety Related Applications for Lifts. Programmable electronics in control and safety systems is expected to increase reliability and reduce production and maintenance costs. Today, safety-related programmable electronics are used in many sectors including the machine, automotive and process industries. PESSRAL in lift controls could be used to detect uncontrolled car movement. Other issues that could be handled through PESSRAL include multiple inspection control stations, monitoring of bridged door switches, car and landing door bypassing functionality, etc.

The IS 17900- 2 includes two new and important aspects for lifts and lift components.

1. The safety components will have to be type tested
2. Important calculations, e.g. machine traction calculations, guide rail calculations, suspension rope safety factor, etc. are elaborated.

The following safety components will require type testing and certification.

- 1) Landing and car door locking devices
- 2) Safety gear
- 3) Overspeed governor
- 4) Buffers
- 5) PESSRAL
- 6) Ascending car overspeed means
- 7) Unintended car movement protection means
- 8) Rupture valve/one-way restrictor

The following calculations are also available.

- 1) Guide rail
- 2) Evaluation of traction
- 3) Evaluation of safety factor on suspension ropes
- 4) Rams, cylinders, rigid pipes, & fittings
- 5) Calculation against over pressure
- 6) Calculation of jacks against buckling

The IS 17900 standard supersedes existing standard IS 14665 (Parts 1 to 4), IS 14671 and IS 15785.

ISO8100 (IS 17900) in India

In India, the elevator standard IS 14665 on traction lifts dates back to year 2000, and though there have been several amendments on all of these standards till date, there are several important safety updates which will get implemented on the adoption of ISO 8100-1 & ISO 8100-2 (IS 17900).

IS 17900 standard is largely based on ISO 8100-1/2 :2019 (Global version). To suit the Indian market requirements and considering provisions of enhanced safety, changes have been made in the standard IS 17900. However, the structure of IS 17900 has been retained for any future alignment and updation

Following are the major changes that will bring more safety to the passengers, service engineers, & public in general, in connection with the use of lifts.

Safety improvements related to passengers:

- Protection against Unintended Car Movement (UCM), with open doors
- Higher requirements for strength of landing and car doors
- Preventing door striking the passengers when entering or leaving the lift car
- Provision against possible fall into the lift well due to (self) rescue
- Higher level of car lighting & Emergency lighting.
- Higher requirements for rescue of trapped persons

Safety improvements for service engineers:

- Higher requirements for refuge spaces on the car roof
- Higher requirements for access to pit and machine rooms, e.g. ladders
- Pit / Car Top refuge spaces
- Control station in the pit to safely reach the car components
- Higher requirements to prevent risk of trapping on the car roof and in the pit
- Higher requirements for well lighting
- Specific requirements for over-connecting the car and landing door contacts during maintenance operations
- Protection against electric shock
- Protection for sheaves & pulleys

PALEA welcomes the KOREA LIFT ASSOCIATION (KoLA) to the Pacific Asia Lift Community



Headed by the **President Mr Ryu Hee-In**, KoLA was registered as a corporation on November 23rd, 2020 and currently has more than 400 member companies.

This was made possible by the amendment of Act 15526, article 68 of the Elevator Safety Management Act dated March 27th, 2018.

Article 68.

(Establishment of an Association) Elevator business operators may establish an association of elevator business operators (herein referred to as an "association") for the sound development of the elevator safety industry and the common interest of elevator business operators.

The main purpose for the establishment of **KoLA is to further develop the Korean lift and escalator industry**, provide a platform for cooperation "win – win" between lift and escalator business operators, and the promotion of safety awareness to the public.

KoLA plans and advances various public campaigns for the recognition of safety cultures and promotion of safety awareness amongst the community and makes arrangements with local governments and relevant organizations to conduct various promotional activities

Major activities include training and education, safety campaigns for the public, policy, and legal improvement, supporting and organizing lift EXPO's and other events in Korea, industrial and technical exchanges, and online sales of lift and escalator parts for member companies.

PALEA has a very strong relationship with the Korea Lift Community and in particular works closely with KoELSA (Korea Elevator Safety Agency) and KTL (Korea Testing Laboratory). PALEA is looking forward to also working with KoLA and congratulates the Ministry of Public Administration and Security for its initiatives in ensuring the safety of elevators and protection of the public and lift industry members.

Board of Directors Meeting March 2022



STOP PRESS !

The PALEA AGM will be held on October 6th 2022. Invitations with location and agenda will be sent to members soon !

MANAGEMENT COMMITTEE



MANAGEMENT CORNER



Thank you for your reading...

Any suggestions / feedback most welcome ..

Please contact n.sundar@palea.org; Management Committee member, PAEA

Website: www.palea.org