ASSESSMENT REPORT ON THE OBSERVANCE OF THE PRINCIPLES FOR FINANCIAL MARKET INFRASTRUCTURES:

JSE CLEAR (PROPRIETARY) LIMITED

PUBLICATION: JUNE 2025

1. Executive Summary

- 1.1. In April 2012, the Committee on Payment and Market Infrastructures ("CPMI") and the Technical Committee of the International Organization of Securities Commission ("IOSCO") published the Principles for Financial Market infrastructures ("PFMIs"). These are high-level principles which set minimum recommended standards for the operations of Financial Market Infrastructures ("FMIs"), namely, Central Securities Depositories ("CSDs"), Securities Settlement Systems ("SSSs"), Central Counterparties ("CCPs"), Payment Systems ("PSs") and Trade Repositories ("TRs"). FMIs are expected to undertake periodic self-assessments to gauge their level of observance with the relevant principles.
- 1.2. The Financial Sector Conduct Authority ("FSCA") and the Prudential Authority ("PA") (collectively referred to as "the Authorities") conducted an assessment on JSE Clear (Propriety) Limited ("JSE Clear"), sometimes referred to as the FMI, to evaluate the FMI's compliance with the PFMIs. This process is also referred to as the PFMI Assessment.
- 1.3. The process followed regarding the PFMI Assessment consists of a self-assessment performed by the FMI to assess compliance with the PFMIs. The Authorities thereafter review the self-assessment performed by the FMI and provide an opinion on the extent to which the FMI complies with the principles assessed.

2. BACKGROUND OF THE ENTITY ASSESSED & METHODOLOGY USED

2.1. Background of JSE Clear

2.1.1. JSE Clear is a wholly owned subsidiary of JSE Limited ("the JSE") which is a securities exchange. On 1 September 2022, JSE Clear was licensed as an Independent Clearing House ("ICH") and CCP as defined in the Financial

Markets Act, 2012 (Act No. 19 of 2012) ("FMA"). Under its license, JSE Clear has

been approved to centrally clear JSE listed derivatives.

2.1.2. The main objective of JSE Clear is to clear and risk manage transactions in listed

derivatives traded on the JSE. Currently, JSE listed derivatives cleared by JSE

Clear include the following:

Equity derivatives.

Commodity derivatives.

Currency derivatives.

Interest rate derivatives.

2.1.3. To perform its functions, JSE Clear has put in place rules and directives for its

members which it enforces. JSE Clear's regulatory powers over its members are

provided for by the FMA. Accordingly, JSE Clear is classified as a Self-Regulatory

Organisation ("SRO").

2.1.4. To become a clearing member of JSE Clear, an entity has to meet requirements

as outlined in section three of the JSE Clear rules. Licensed Banks as well as

exchange members prudentially regulated by the JSE can become clearing

members of JSE Clear. The current clearing members of JSE Clear are as listed

below.

Absa Bank Limited

Investec Bank Limited

Merrill Lynch South Africa

Nedbank Limited

Standard Bank Limited

• Rand Merchant Bank Limited

JP Morgan

2.2. Background to the PFMI assessment

Assessors: The assessment was conducted by the FSCA and the PA.

Objective of the assessment: The main objective of the assessment is to confirm an FMI's ongoing compliance with the PFMIs issued by the CPMI and the Technical Committee of IOSCO.

3. PURPOSE OF THE ASSESSMENT REPORT

3.1. This report serves to provide results of the Authorities' review of JSE Clear's self-assessment and to confirm the FMI's ongoing observance of the PFMIs issued by CPMI-IOSCO.

4. PRINCIPLES NOT APPLICABLE TO JSE CLEAR.

4.1. There are principles that are not applicable to JSE Clear as an ICH and CCP.

The following table lists these principles and the reasons why they are not applicable:

Principle	Name	Reason
Principle 11	Central Securities	The principle applies to
	Depositories	CSDs. JSE Clear is not a CSD
		but an ICH and CCP.
Principle 12	Exchange of Value	As an ICH and CCP, JSE
	Settlement systems	Clear does not itself operate a
		settlement system.
Principle 20	FMA Links	Currently non-applicable as
		JSE Clear does not have FMI
		links. Previously, JSE Clear
		advised that this would come
		into effect when their
		securities collateral services
		goes live. This will be
		assessed in the next PFMI

		review as the service was not	
		live at the time of the current	
		submission.	
Principle 24	Disclosure of Market Data by	Principle 24 deals with the	
	Trade Repositories	disclosure of market data by	
		Trade Repositories (TR) and	
		is not applicable to JSE Clear	
		as an ICH and CCP.	

5. OVERVIEW OF THE PFMIs.

Principle	Overview of the Principle		
1. Legal Basis	An FMI should have a well-founded, clear,		
	transparent, and enforceable legal basis for each		
	material aspect of its activities in all relevant		
	jurisdictions.		
2. Governance	An FMI should have governance arrangements that		
	are clear and transparent, promote the safety and		
	efficiency of the FMI, and support the stability of the		
	broader financial system, other relevant public		
	interest considerations, and the objectives of		
	relevant stakeholders.		
3. Framework for	An FMI should have a sound risk-management		
the	framework for comprehensively managing legal,		
Comprehensive	credit, liquidity, operational, and other risks.		
Management of			
Risks			
4. Credit Risk	An FMI should effectively measure, monitor, and		
	manage its credit exposures to participants and		

	those arising from its payment, clearing, and settlement processes.
5. Collateral	An FMI that requires collateral to manage its or its participants' credit exposure should accept collateral with low credit, liquidity, and market risks.
6. Margin	A CCP should cover its credit exposures to its participants for all products through an effective margin system that is risk-based and regularly reviewed.
7. Liquidity Risk	An FMI should effectively measure, monitor, and manage its liquidity risk.
8. Settlement Risk	An FMI should provide clear and certain final settlement, at a minimum by the end of the value date. Where necessary or preferable, an FMI should provide final settlement intraday or in real time.
9. Money Settlements	An FMI should conduct its money settlements in central bank money where practical and available.
10. Physical Deliveries	An FMI should clearly state its obligations with respect to the delivery of physical instruments or commodities and should identify, monitor, and manage the risks associated with such physical deliveries.
11. Central Securities Depositories	A CSD should have appropriate rules and procedures to help ensure the integrity of securities issues and minimise and manage the risks associated with the safekeeping and transfer of securities.
12. Exchange-of- Value Settlement Systems	If an FMI settles transactions that involve the settlement of two linked obligations (for example, securities or foreign exchange transactions), it

	should eliminate principal risk by conditioning the final settlement of one obligation upon the final settlement of the other.
13. Participant Default Rules and Procedures	An FMI should have effective and clearly defined rules and procedures to manage a participant default.
14. Segregation and Portability	A CCP should have rules and procedures that enable the segregation and portability of positions of a participant's customers and the collateral provided to the CCP with respect to those positions.
15. General Business Risk	An FMI should identify, monitor, and manage its general business risk and hold sufficient liquid net assets funded by equity to cover potential general business losses so that it can continue operations and services as a going concern if those losses materialise.
16. Custody and Investment Risks	An FMI should safeguard its own and its participants' assets and minimise the risk of loss on and delay in access to these assets.
17. Operational Risk	A CCP should have rules and procedures that enable the segregation and portability of positions of a participant's customers and the collateral provided to the CCP with respect to those positions.
18. Access and Participation Requirements	An FMI should have objective, risk-based, and publicly disclosed criteria for participation, which permit fair and open access.
19. Tiered Participation Arrangements	An FMI should identify, monitor, and manage the material risks to the FMI arising from tiered participation arrangements.

20. FMI Links	An FMI that establishes a link with one or more FMIs	
	should identify, monitor, and manage link-related	
	risks.	
21. Efficiency and	An FMI should be efficient and effective in meeting	
Effectiveness	the requirements of its participants and the markets	
	it serves.	
22. Communication	An FMI should use, or at a minimum accommodate,	
procedures and	relevant internationally accepted communication	
standards	procedures and standards in order to facilitate	
	efficient payment, clearing, settlement, and	
	recording.	
23. Disclosures of	An FMI should have clear and comprehensive rules	
Rules, Key	and procedures and should provide sufficient	
Procedures and	information to enable participants to have an	
Market Data	accurate understanding of the risks, fees, and other	
	material costs they incur by participating in the FMI.	
24. Disclosure of	A TR should provide timely and accurate data to	
Market Data by	relevant authorities and the public in line with their	
Trade	respective needs.	
Repositories		

6. METHODOLOGY FOR THE ASSESSMENT

The process commenced with the Authorities assessing JSE Clear's observance with the PFMIs based on responses provided by JSE Clear. In verification of the responses from JSE Clear, the Authorities requested further information, including updated frameworks, policies and procedure documents. The CPMI-IOSCO rating scale was utilised to rate the level of compliance of JSE Clear with the PFMIs following the self-assessment by the FMI utilising the same rating scale. The rating scale takes into account the issues of concern and the magnitude of risk urgency, and is as follows:

Rating	Definition	
Observed	The FMI observes the principle. Any identified gaps and	
	shortcomings are not issues of concern and are minor,	
	manageable and of a nature that could be addressed in	
	the normal course of business.	
Broadly Observed	The FMI broadly observes the principle. The	
	assessment has identified one or more issues of	
	concern that the FMI and Authorities should address and	
	follow up on a defined timeline.	
	·	
Partially Observed	The FMI partly observes the principle. The assessment	
	has identified one or more issues of concern that could	
	become serious if not addressed promptly. The FMI and	
	the Authorities should accord a high priority to	
	addressing these issues.	
Not Observed	The FMI does not observe the principle. The	
	assessment has identified one or more serious issues of	
	concern that warrant immediate action. Therefore, the	
	FMI and the Authority should accord the highest priority	
	to addressing these issues.	
	<u> </u>	
Not Applicable	The principle or responsibility does not apply to the type	
	of FMI or the Authority being assessed because of the	
	particular legal, institutional, structural or other	
	characteristics of the FMI or Authority.	

For each principle assessed, specific documents were provided (e.g. policies, standard operating procedures, reports and references to rules) by JSE Clear in support of the assessment and, where necessary, supplementary material was requested from the FMI in support of its responses to the self-assessment.

7. SUMMARY OF RATINGS

The table below summarises the ratings pertaining to JSE Clear:

Pı	rinciple	Rating	Reason
Principle 1	Legal Basis	Observed	Met Key Considerations of the Principle
Principle 2	Governance	Observed	Met Key Considerations of the Principle
Principle 3	Risk Management Framework	Observed	Met Key Considerations of the Principle
Principle 4	Credit Risk	Observed	Met Key Considerations of the Principle
Principle 5	Collateral	Observed	Met Key Considerations of the Principle
Principle 6	Margin	Observed	Met Key Considerations of the Principle
Principle 7	Liquidity Risk	Observed	Met Key Considerations of the Principle
Principle 8	Settlement Finality	Observed	Met Key Considerations of the Principle
Principle 9	Money Settlements	Observed	Met Key Considerations of the Principle
Principle 10	Physical Deliveries	Observed	Met Key Considerations of the Principle
Principle 13	Participant Default Rules and Procedures	Observed	Met Key Considerations of the Principle
Principle 14	Segregation and Portability	Observed	Met Key Considerations of the Principle

Principle 15	General Business	Observed	Met Key Considerations of the
	Risk		Principle
Dringinle 46	Custody	Observed	Mat Kay Canaidayatiana af the
Principle 16	Custody and	Observed	Met Key Considerations of the
	Investment Risk		Principle
Principle 17	Operational Risk	Observed	Met Key Considerations of the
			Principle
Principle 18	Access and	Observed	Met Key Considerations of the
	Participation		Principle
	Requirements		Timospie
	Requirements		
Principle 19	Tiered	Observed	Met Key Considerations of the
	Participation		Principle
	Arrangements		
Principle 21	Efficiency and	Observed	Met Key Considerations of the
	Effectiveness		Principle
Dringinla 00	Communication	Observed	Mat Kay Considerations of the
Principle 22	Communication	Observed	Met Key Considerations of the
	Procedures and		Principle
	Standards		
Principle 23	Disclosure of	Observed	Met Key Considerations of the
	Rules, Key		Principle
	Procedures and		
	Market Data		

8. DETAILED ASSESSMENT

Principle 1: Legal Basis

An FMI should have a well-founded, clear, transparent, and enforceable legal basis for each material aspect of its activities in all relevant jurisdictions.

Overall Rating: Observed

Overall Comment:

This principle requires an FMI to have sound legal basis for its activities. JSE Clear has sound legal basis for its activities stemming from the various legislative instruments such as the Financial Sector Regulation Act, 2017; Financial Markets Act, 2012, Financial Markets Act Regulations, 2018 and various Standards and Board Notices, inter alia.

Key Consideration 1	Assessment of the Key Consideration	Rating	Recommendation
degree of certainty for each material	All the securities traded and cleared through JSE Clear form part of the JSE's list of securities kept in terms of section 11(8)(a) of the FMA and section 13 of the		None
	Derivatives Rules. The terms, conditions and obligations of the parties that conclude transactions in these securities		

	are contained in the contract specifications.		
Key Consideration 2	Assessment of the Key Consideration	Rating	Recommendation
An FMI should have rules, procedures, and contracts that are clear, understandable, and consistent with relevant laws and regulations	JSE Clear has rules that have been framed in English, conform to the legality principle as contemplated in the Constitution of South Africa, satisfy the requirements of the FMA, are subject to public scrutiny prior to taking effect, are subject to the approval of the Registrar of Securities Services prior to taking effect, and any JSE Clear rules or contracts that are not clear and understandable will be deemed void for vagueness.	Observed	None
Key Consideration 3	Assessment of the Key Consideration	Rating	Recommendation
An FMI should be able to articulate the legal basis for its activities to relevant authorities, participants, and, where relevant, participants' customers, in a clear and understandable way.	· · · · · · · · · · · · · · ·	Observed	None

Key Consideration 4	All rules are published on the JSE Clear website for access by the public. Assessment of the Key Consideration	Rating	Recommendation
	By virtue of its review and approval process for all JSE Clear rule changes, the Registrar confirms that JSE Clear's rules are framed in accordance with the provisions of the FMA.		
	When motivating changes to the rules, JSE Clear articulates these proposed changes in writing to the Registrar and is required to demonstrate that such changes are in accordance with the provisions of the FMA.		
	Section 50 of the FMA imposes a public duty on JSE Clear to enforce the clearing house rules and supervise compliance by authorised users with these rules.		

An FMI should have rules, procedures, and contracts that are enforceable in all relevant jurisdictions. There should be a high degree of certainty that actions taken by the FMI under such rules and procedures will not be voided, reversed, or subject to stays.	Not Applicable - JSE Clear only operates within SA.	Observed	None
Key Consideration 5	Assessment of the Key Consideration	Rating	Recommendation
An FMI conducting business in multiple jurisdictions should identify and mitigate the risks arising from any potential conflict of laws across jurisdictions.	Not Applicable - JSE Clear only operates within SA.	Observed	None

Principle 2: Governance

An FMI should have governance arrangements that are clear and transparent, promote the safety and efficiency of the FMI, and support the stability of the broader financial system, other relevant public interest considerations, and the objectives of relevant stakeholders.

Overall Rating: Observed

Overall Comment:

The governance arrangements of JSE Clear such as the controlling body and the subcommittees have been assessed and were found to be in line with Principle 2 of the PFMIs.

Key consideration 1	Assessment of the Key Consideration	Rating	Recommendation
An FMI should have objectives that place a high priority on the safety and efficiency of the FMI and explicitly support financial stability and other relevant public interest considerations.	Management Framework document articulates JSE Clear's risk		None
Key Consideration 2	Assessment of the Key Consideration	Rating	Recommendation

An FMI should have documented governance arrangements that provide clear and direct lines of responsibility and accountability. These arrangements should be disclosed to owners, relevant authorities, participants, and, at a more general level, the public.	JSE Clear is a private company, wholly-owned by the JSE. JSE Clear is governed by its own board of directors, supported by a Risk Committee and two Advisory Committees - one focused on risk and one focused on operations. JSE Clear operates under the structure of the JSE Clear Rules approved by the Registrar of Securities Services and the company is therefore bound by the FMA, the Companies Act and the King IV Code on Corporate Governance. Internal governance is reflected in the company's Memorandum of Incorporation, the Board Charter, Committee Terms of reference and a Code of Ethics.	Observed	None
Key Consideration 3	Assessment of the Key Consideration	Rating	Recommendation
The roles and responsibilities of an FMI's board of directors (or equivalent) should be clearly specified, and there should be documented procedures for its functioning, including procedures to identify, address, and manage member conflicts of interest. The board should review both its overall performance and the performance of its individual board members regularly.	Article 11.1.1 of JSE Clear's Mol vests the management and control of JSE Clear in the Board, which has the powers conferred upon it by the relevant legislation, the rules of JSE Clear made in terms of such legislation, and JSE Clear's Mol. Roles and responsibilities for a licensed Clearing House are also specified in the FMA that the JSE Clear Board, as the controlling body, has to fulfil.	Observed	None

Key Consideration 4	Assessment of the Key Rating Recommendation Consideration	
	terms of its Board Charter, aligned to King IV and the Companies Act. The roles and responsibilities of directors can be found in the FMA, the Companies Act and the JSE Clear Board Charter.	
	Clearing House's business; - monitoring investment decisions; and - considering significant financial matters and risk. The JSE Clear Board also operates in	
	 management of its relationship with all shareholders and other stakeholders of JSE Clear; providing strategic direction to JSE Clear; identifying key risk areas and key performance indicators of the 	
	The JSE Clear Board's primary responsibilities, based on an agreed assessment of levels of materiality, include being the focal point (and custodian of corporate governance) for:	

The board should contain suitable members with the appropriate skills and incentives to fulfil its multiple roles. This typically requires the inclusion of non-executive board member(s).	new directors to the Board. In terms of	Observed	None
	recommend candidates to the Board for approval. The JSE Clear Board appoints new members taking the following into consideration:		
	 the particular skills or experience each Board member brings to the Board; the capacity of each appointee to satisfy the competency requirements necessary for being a director; and taking cognisance of the race and gender of the candidate to ensure the achievement of demographic equity. 		
Key consideration 5	Assessment of the Key Consideration	Rating	Recommendation

The roles and responsibilities of	In order to optimise the operation of the	Observed	None
management should be clearly specified.	CCP, JSE Clear has staff in its own		
An FMI's management should have the	employ to perform the operating		
appropriate experience, a mix of skills,	functions, risk management services,		
and the integrity necessary to discharge	declaration of defaulting members and		
their responsibilities for the operation and	clearing house services ("the services")		
risk management of the FMI.	in terms of its licensed responsibilities.		
	The provision of these services is		
	governed by the applicable JSE Clear		
	rules. The JSE Clear Chief Executive		
	Officer is the individual who has been		
	tasked with ensuring that the services		
	are delivered in accordance with the		
	JSE Clear rules and contractually		
	agreed service levels.		
	The primary reenensibility of the ICC		
	The primary responsibility of the JSE Clear management team (comprising		
	the JSE Clear CEO, CRO, CCO and		
	CIO/COO) is the oversight and		
	execution of all of the activities required		
	to fulfil the various licensed functions		
	imposed on JSE Clear as part of its		
	Independent Clearing House and CCP		
	license.		
Key consideration 6	Assessment of the Key	Rating	Recommendation
	Consideration		

The board should establish a clear, documented risk-management framework that includes the FMI's risk-tolerance policy, assigns responsibilities and accountability for risk decisions, and addresses decision making in crises and emergencies. Governance arrangements should ensure that the risk-management and internal control functions have sufficient authority, independence, resources, and access to the board.

The JSE Clear Enterprise Risk Framework document articulates JSE Clear's risk management philosophy and the various policies that have been established to underpin this.

This document provides a comprehensive overview of JSE Clear's risk management approach, clearly determines and records the different risks to which JSE Clear is exposed by operating a clearing service and provides an auditable monitoring, control and management framework for both the policies and the risks.

JSE Clear's Enterprise Risk Management Framework is connected to, and aligned with, the risk appetite statement set by the JSE Clear Board. The Risk Appetite Statement addresses the following dimensions:

- Capital;
- Prefunded resources:
- Liquidity;
- Operational;
- Human resources;
- Cyber security;
- Compliance and ethics;
- Fraud and corruption; and
- Reputation.

Observed None

	The JSE Clear Risk Committee terms of reference clearly assigns responsibilities for key risk decisions. Decisions in crisis and emergency situations are defined in the JSE Clear's default procedures.		
	JSE Clear is ultimately responsible and accountable for the governance of risk, focusing on establishing, maintaining and monitoring the effectiveness of the processes, policies and plans of risk management and systems of internal control. The JSE Clear Board has constituted the JSE Clear Risk Committee to assist in discharging its duties. The JSE Clear Risk Committee has been delegated the responsibility for determining JSE Clear's overall risk philosophy, risk appetite and the standards/ methodologies to be		
Key consideration 7	Assessment of the Key Consideration	Rating	Recommendation

The board should ensure that the FMI's design, rules, overall strategy, and major decisions reflect appropriately the legitimate interests of its direct and indirect participants and other relevant stakeholders. Major decisions should be clearly disclosed to relevant stakeholders and, where there is a broad market impact, the public.	of Article 21 of the JSE Clear MOI) to nominate Clearing Member representatives for consideration to appointment to the Board of JSE Clear. The CCP and ICH also stated that JSE, FSCA and Clearing Members are participants in the JSE Clear Risk Committee. In addition, all clearing members are participants in the two JSE Clear Advisory Committees, the main	Observed	None
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Principle 3: Framework for the comprehensive management of risks

An FMI should have a sound risk-management framework for comprehensively managing legal, credit, liquidity, operational, and other risks.

Overall Rating: Observed

Overall Comment:

JSE Clear has been found to have a risk management framework for managing all risks of a CCP, including the legal, credit, liquidity, operational, and other relevant risks

Key consideration 1	Assessment	of	the	Key	Rating	Recommendation
	Consideration					
An FMI should have risk-management	As a licensed	CCP	operating	only	Observed	None
policies, procedures, and systems that	within SA, JSE C			•		
enable it to identify, measure, monitor, and						
manage the range of risks that arise in or	- Systemic risk					
	,	111				
are borne by the FMI. Risk-management	- Counterparty of	credit	risk			
frameworks should be subject to periodic	 Liquidity risk 					
review.	- Legal risk					
	- General busine	ess ris	sk			
	- Investment risl					
	- Operational ris	`	, arty			
	•					
	- Reputational ri	SK				
	The JSE Cle	ar E	nterprise	Risk		
	Management F		•			
	•	SE	Clear's	risk		
	management p					

various policies that have been established to underpin this. This document provides a comprehensive overview of JSE Clear's risk management approach, clearly determines and records the different risks to which JSEC is exposed by operating a clearing service and provides an auditable monitoring, control and management framework for both the policies and the risks.

The Risk Appetite statement for dimensions such as Capital, Prefunded Resources, Liquidity, Operational and Compliance are stipulated to determine the boundaries within which JSE Clear needs to operate.

The Risk team reports formally to the JSE Clear Executive Committee on at least a monthly basis. Similarly, reporting takes place on a quarterly basis to the JSE's Exco (via the JSE Risk Exco sub-committee), the JSE Clear Risk Committee and JSE Clear Board on risk exposures, via a quarterly risk report specifically created for the CCP.

	The JSE Clear Board and Risk Committees have oversight of all policies and procedures - and receive (at a minimum) quarterly feedback on all risk events affecting the CCP. Policies are reviewed by Internal Audit for compliance with applicable laws, regulations and codes of practice in all relevant jurisdictions, and for compliance with internal processes and policies. Back-testing results test the effectiveness of counterparty credit risk measurement and control. Stress testing is used to assess the adequacy of JSE Clear's financial resources to sustain it in a period of severe stress, defined by "extreme but plausible" stress scenarios.		
Key Consideration 2	Assessment of the Key Consideration	Rating	Recommendation
An FMI should provide incentives to participants and, where relevant, their customers to manage and contain the risks they pose to the FMI.	ICH provides daily information on	Observed	None

	member and clearing member level per asset class. JSE Clear also provides information to facilitate the calculation of clearing members banks' regulatory capital with regard to counterparty credit risk. All reports and policies are distributed to and discussed with the JSE Clear Risk Advisory Committee, key changes are discussed at Trading Advisory committee meetings and rulebooks and policies are available on the JSE website.		
Key Consideration 3	Assessment of the Key Consideration	Rating	Recommendation
An FMI should regularly review the material risks it bears from and poses to other entities (such as other FMIs, settlement banks, liquidity providers, and service providers) as a result of interdependencies and develop appropriate risk management tools to address these risks.	relating to these interdependencies, which is pertinent due to the concentrated nature of the South African financial market. In particular, JSE Clear has a limited number of	Observed	None

exacerbate stress in the local market and could contribute to contagion.

These risks are monitored and reported to the JSE Clear Risk Committee and JSE Clear Board quarterly, but are managed and monitored on a daily basis by the Chief Risk Officer and thresholds are in place for appropriate internal and external escalation of exposure and settlement breaches.

The following tools have been utilised:

- JSE Clear sets conservative entry requirements and monitors the credit quality of its clearing members.
- A conservative investment mandate is in place to mitigate against concentration risk with investment counterparties.
- JSE Clear maintains liquidity facilities with 3 local and 2 international (non-clearing member) banks
- Alternate bank accounts are set up for settlement of daily margin flows.

Key Consideration 4	Assessment of the Key Consideration	Rating	Recommendation
An FMI should identify scenarios that may potentially prevent it from being able to provide its critical operations and services as a going concern and assess the effectiveness of a full range of options for recovery or orderly wind-down. An FMI should prepare appropriate plans for its recovery or orderly wind-down based on the results of that assessment. Where applicable, an FMI should also provide relevant authorities with the information needed for purposes of resolution planning.	assessed twice a year and strategic risks are assessed quarterly. Credit and liquidity stress testing scenarios are reviewed at least annually and more often if market conditions change materially. These reviews are conducted by the JSE Clear Risk Committee. Scenarios relating to site disaster,	Observed	None
	Stressing market variables: - Historical and hypothetical stresses are used in the daily credit and liquidity stress testing calculations, along with operational events that could impact liquidity risk. - Financial stress testing assesses the resilience of JSE Clear's financial performance and		

business sustainability under various scenarios such as a material loss in revenue or a once off cost due to an operational or cyber event.

JSE Clear has its own Default Management committee, which is convened in instances where either default in the market has occurred, or the potential for a default has been identified. In both instances, the JSE Clear's formal default management procedures will be applied.

Principle 4: Credit Risk:

An FMI should effectively measure, monitor, and manage its credit exposures to participants and those arising from its payment, clearing, and settlement processes. An FMI should maintain sufficient financial resources to cover its credit exposure to each participant fully with a high degree of confidence. In addition, a CCP that is involved in activities with a more-complex risk profile or that is systemically important in multiple jurisdictions should maintain additional financial resources sufficient to cover a wide range of potential stress scenarios that should include, but not be limited to, the default of the two participants and their affiliates that would potentially cause the largest aggregate credit exposure to the CCP in extreme but plausible market conditions. All other CCPs should maintain additional financial resources sufficient to cover a wide range of potential stress scenarios that should include, but not be limited to, the default of the participant and its affiliates that would potentially cause the largest aggregate credit exposure to the CCP in extreme but plausible market conditions.

Overall Rating:	Observed

Overall Comment:

JSE Clear has risk management policies and frameworks that sets out detailed procedures to identify, measure and monitor the risks that JSE Clear is exposed to.

Key consideration 1	Assessment of the K Consideration	Rating	Recommendation
An FMI should establish a robust framework to manage its credit exposures to its participants and the credit risks arising from its payment, clearing, and settlement processes. Credit exposure may arise from current exposures, potential future exposures, or both.	are firstly mitigated by en requirements to becoming a cleari member. Per the JSE Clea membership requirements, cleari members have to have R200m worth	y g s g	None

	JSE Clear manages its current		
	exposures to clearing members by		
	performing at least one scheduled		
	mark-to-market settlement cycle daily,		
	where profits and losses are realized		
	through variation margin payments.		
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	Potential future exposures are taken		
	into account through initial margin,		
	which is calculated based on Value-at-		
	Risk methodologies and held as		
	collateral throughout the lifetime of a		
	position. Also, the JSE Clear default		
	fund is in place to cover potential future		
	exposures under stressed conditions,		
	should losses in a default situation		
	exceed initial margin held.		
	execcu muai margin nerai		
	Credit exposures to investment		
	counterparties are managed through		
	the JSE Clear Investment Mandate.		
	which specifies the minimum credit		
	rating of investment counterparties.		
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	Credit standings of JSE Clear's		
	members and investment banks are		
	monitored on an ongoing basis and		
	reported to the JSE Clear Risk		
	Committee quarterly.		
Key Consideration 2	'	Rating	Recommendation
	Consideration		
	I		

	T		
An FMI should identify sources of credit	JSE Clear identifies credit risk by	Observed	None
risk, routinely measure and monitor	considering any market participant that		
credit exposures, and use appropriate	could cause losses to JSE Clear as a		
risk-management tools to control these			
risks.			
The state of the s	JSE Clear faces credit risk from its		
	clearing members, its investment banks		
	and its settlement bank:		
	and its settlement bank.		
	Should a clearing member default		
	- Should a clearing member default,		
	JSE Clear is responsible for		
	meeting the defaulting clearing		
	member's variation margin		
	payments on its behalf using		
	prefunded resources. The JSE		
	Clear default fund is in place to		
	cover potential future exposures		
	under stressed conditions should		
	losses in a default situation exceed		
	initial margin held. JSE Clear thus		
	faces credit risk to its clearing		
	members, as JSE Clear contributes		
	to the JSÉ Clear default fund.		
	- The JSE Clear default fund is		
	invested with a range of investment		
	banks, therefore JSE Clear faces		
	credit risk should an investment		
	bank default, as JSE Clear		
	contributes to the default fund.		
	Similarly, JSE Clear has credit risk		
	on the investment of its own funds.		
	on the investment of its own funds.		

Key Consideration 3	Assessment of the Key Consideration	Rating	Recommendation
A payment system or SSS should cover its current and, where they exist, potential future exposures to each participant fully with a high degree of confidence using collateral and other equivalent financial resources (see Principle 5 on collateral). In the case of a DNS payment system or DNS SSS in which there is no settlement guarantee but where its participants face credit exposures arising from its payment, clearing, and settlement processes, such an FMI should maintain, at a minimum, sufficient resources to cover the exposures of the two participants and their affiliates that would create the largest aggregate credit exposure in the system.	requirements, the CCP and ICH monitors the capital of its Trading and Clearing Members (which are not banks). In the case of Clearing Members, they have to have R200m worth of assets (own funds) to become a Clearing Member. In the case of default of a participant, initial margin held is used to cover market movements until the position is closed. JSE Clear also has a Default Fund (currently ZAR 600m in size) and	Observed	None

Key Consideration 4	Assessment of the Key	Rating	Recommendation
	Consideration		
A CCP should cover its current and	To cover current exposure arising from	Observed	None
potential future exposures to each	price movements, JSE Clear requires		
participant fully with a high degree of	realized losses on all outstanding		
confidence using margin and other	positions to be paid to the winning		
prefunded financial resources (see	position holders through daily variation		
Principle 5 on collateral and Principle 6	margin payments. To cover potential		
on margin). In addition, a CCP that is	future exposure, JSE Clear imposes		
involved in activities with a more-	initial margin requirements calculated to		
complex risk profile or that is	a 99.7% confidence level. Furthermore,		
systemically important in multiple	the JSE Clear default fund covers		
jurisdictions should maintain additional	·		
financial resources to cover a wide	stressed conditions, should losses in a		
range of potential stress scenarios that	1		
should include, but not be limited to, the	held.		
default of the two participants and their			
affiliates that would potentially cause	Initial margin and the default fund		
the largest aggregate credit exposure	monies in cash are invested across		
for the CCP in extreme but plausible			
market conditions. All other CCPs	the credit, concentration and liquidity		
should maintain additional financial	limits specified in the JSE Clear		
resources sufficient to cover a wide	Investment Mandate. To ensure		
range of potential stress scenarios that	, ,		
should include, but not be limited to, the	prefunded resources in a default		
default of the participant and its affiliates	situation, a minimum of 30% of the total		
that would potentially cause the largest	margin on deposit and 30% of the default fund must be invested on call.		
aggregate credit exposure for the CCP			
in extreme but plausible market conditions. In all cases, a CCP should	The weighted average duration of the margins invested must be less than 75		
•	margins invested must be less than 75		
document its supporting rationale for,	margina invested must be less than 75		

and should have appropriate governance arrangements relating to, the amount of total financial resources it maintains.			
Key Consideration 5	Assessment of the Key Consideration	Rating	Recommendation

A CCP should determine the amount | Stress testing at JSE Clear is conducted and regularly test the sufficiency of its total financial resources available in the event of a default or multiple defaults in extreme but plausible market conditions through rigorous stress testing. A CCP should have clear procedures to report the results of its stress tests to appropriate decision makers at the CCP and to use these results to evaluate the adequacy of and adjust its total financial resources. Stress tests should be performed daily using standard and predetermined parameters and assumptions. On at least a monthly basis, a CCP should perform a comprehensive and thorough analysis of stress testing scenarios, models, and underlying parameters and assumptions used to ensure they are appropriate for determining the CCP's required level of default protection in light of current and evolving market conditions. A CCP should perform this analysis of stress testing more frequently when the products cleared or markets served display high volatility, become less liquid, or when the size or concentration of positions held by a CCP's participants increases significantly. A full validation of a CCP's

by completing the following steps:

- Stress scenarios are defined by a set of stressed risk factors (e.g. equity price moves, exchange rate moves) and an economic storyline of the stress, where applicable;
- These stress scenario risk factors are applied to revalue the portfolio under stressed conditions (stressed MtM);
- Default assumptions are applied to the stressed portfolio (i.e. default the largest clearing member, apply netting rules, assumption of no porting of healthy entities under the defaulter etc.):
- The resulting loss from the default conditions stressed under calculated, by taking into account initial margin available to cover stressed variation margin; and finally
- JSE Clear's total default resources are compared to the resulting loss above.

Stress testing results are calculated and monitored on a daily basis.

Observed

None

risk-management model should be			
performed at least annually.	Escalation level breaches are reported		
	to the CRO and CEO on the day the		
	breach arises in accordance with the		
	Stress Testing Policy. The CRO/CEO		
	are responsible to escalate material		
	breacher to the JSE Clear Risk		
	Committee.		
	If stress testing indicates that there are		
	If stress testing indicates that there are insufficient financial resources (under		
	circumstances of extreme but plausible		
	market conditions), JSE Clear can elect		
	to:		
	- Increase the size of the JSE Clear		
	default fund; or		
	- Increase initial margin requirements.		
	3 3 4 4 5 5 5 5		
	JSE Clear's risk management models		
	are reviewed and approved annually by		
	the JSE Clear Risk Advisory Committee		
	and Risk Committee. Material changes		
	are approved by the Board.		
Key Consideration 6		Rating	Recommendation
	Consideration		

In conducting stress testing, a CCP In total, 29 stress testing scenarios are should consider the effect of a wide range of relevant stress scenarios in terms of both defaulters' positions and possible price changes in liquidation | Keeping JSE's pivotal role in the South periods. Scenarios should include African trading market in mind, all relevant peak historic price volatilities, shifts in other market factors such as focus on South African market stresses. price determinants and yield curves, However, due to its interaction with multiple defaults over various time horizons, simultaneous pressures in funding and asset markets, and a spectrum of forward-looking stress scenarios in a variety of extreme but plausible market conditions.

including 24 historical defined. scenarios and 5 liquidity scenarios.

scenarios were constructed with the global financial markets, these mostly coincide with global stresses. All scenarios represent extreme yet plausible moves in the market.

Daily price and volatility history was collected for the most prominent risk factors in each of the markets - equities, commodities, bonds and interest rates and currencies. Data history was collected as far back as possible, in most cases from 2000s and in some cases earlier. Two-day price and volatility stresses per asset class were then analysed and used to define all scenarios.

Following periods of high volatility, analysis is conducted to determine whether additional scenarios from the recent stress period should be added to the scenario set.

Observed None

	All scenarios are subject to scrutiny by not only the Risk Team, but market experts within JSE Clear. The scenarios are reviewed and approved annually by the JSE Clear Risk Advisory Committee, the JSE Clear Risk Committee and the JSE Clear Board.		
Key Consideration 7	Assessment of the Key Consideration	Rating	Recommendation
An FMI should establish explicit rules and procedures that address fully any credit losses it may face as a result of any individual or combined default among its participants with respect to any of their obligations to the FMI. These rules and procedures should	Member(s) default is limited to JSE Clear's contribution to the JSE Clear default fund.	Observed	None
address how potentially uncovered credit losses would be allocated, including the repayment of any funds an FMI may borrow from liquidity providers. These rules and procedures should also indicate the FMI's process to replenish any financial resources that the FMI may employ during a stress event, so	In the event that all prefunded resources are exhausted and there are still outstanding obligations of the defaulter, a variation margin haircutting process will be followed to apportion the shortfall across variation margin winners in the respective markets.		
that the FMI can continue to operate in a safe and sound manner.	After a loss event where the Default Fund is accessed, the fund size will be recalculated and JSE Clear and the non-defaulting Clearing Members will		

und as per the fied in the JSE Clear Fund Policy.

Principle 5: Collateral

An FMI that requires collateral to manage its or its participants' credit exposure should accept collateral with low credit, liquidity, and market risks. An FMI should also set and enforce appropriately conservative haircuts and concentration limits.

Overall Rating: Observed

Overall Comment:

JSE Clear's collateral management policies have been well documented and assessed by the Authorities. Changes to the policies and an increase of the collateral pool to provide for non-cash collateral was reviewed and approved through regulatory channels.

Key consideration 1	Assessment of the Key Consideration	Rating	Recommendation
An FMI should generally limit the assets it (routinely) accepts as collateral to those with low credit, liquidity, and market risks.	accepted ZAR cash collateral to cover	Observed	None
	JSE Clear has gone live with its securities collateral service for the acceptance of government bonds against initial margin. JSE Clear has an approved Collateral Policy which sets out principles in		

	relation to the acceptance of securities		
	collateral. The Collateral Risk		
	Management Framework specifies		
	JSE Clear's collateral eligibility criteria		
	as well as concentration and other		
	limits applicable.		
	інні зарріісаріе.		
	Eligible securities will be accepted as		
	collateral for initial margin obligations		
	as part of the daily margin settlement		
	process. There are no exceptional		
	circumstances in which securities		
	collateral will be accepted.		
	oonatoren nim 20 aosopioan		
	As JSE Clear will only accept South		
	African government bonds, specific		
	wrong-way risk (WWR) will not apply.		
	As and when the collateral service is		
	expanded to accept other securities,		
	specifically equities, the collateral risk		
	management framework will be		
	enhanced to ensure appropriate		
	management of specific wrong-way		
	risk and functionality in the Collateral		
	Management System in support of the		
	management of wrong-way risk will be		
	utilised e.g. restrictions that prevent a		
	counterparty from pledging its own		
	stock or stock of closely linked		
	entities.		
Key Consideration 2		Rating	Recommendation
	Consideration		

An FMI should establish prudent valuation practices and develop haircuts that are regularly tested and take into account stressed market conditions.	The rules regarding the current acceptance of ZAR cash collateral have been in place for a number of years and were initially published for regulatory review and public commentary before being implemented.	Observed	None
	The changes to these Rules in relation to the acceptance of securities collateral followed the normal process which included:		
	 Internal changes and review of the Rules and Directives. Review by the JSE Clear Risk and Advisory Committees. Approval by the JSE Clear Board. Approval by JSE Executive Committee. Approval by the Financial Services Conduct Authority. Published for public comment. 		
	At the CCP and ICH, haircuts are conservatively determined through the haircut methodology, which takes into account a 20 year lookback including period of stress and 99.96% confidence interval.		

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	Additionally, JSE Clear may factor		
	results from the periodic assessment		
	of bid-ask spreads on government		
	bonds as an indication of liquidity of		
	the bonds. For example, JSE Clear		
	conducts an annual poll of market		
	participants to elicit and determine		
	average bid-ask spreads on		
	government bonds of varying sizes		
	under stressed market conditions.		
Key Consideration 3	Assessment of the Key	Rating	Recommendation
	Consideration		
In order to reduce the need for	The potential for procyclicality of	Observed	None
procyclical adjustments, an FMI should	haircuts is minimised through the		
establish stable and conservative	conservative methodology used in		
haircuts that are calibrated to include	determining the haircuts. This		
periods of stressed market conditions, to	considers the most severe 3-day price		
the extent practicable and prudent.	move based on a 20 year look-back		
	(including an appropriate period/s of		
	stress) and a 99.96% confidence		
	interval.		
	The 3-day price stress aligns with the		
	setting of concentration limits which		
	limit aggregate collateral positions in a		
	security to a value that JSE Clear can		
	readily liquidate in 3 days without		
	adversely impacting market prices.		
	This calculation is based on the		
	average daily value traded (ADVT) of		
	the security and a conservative		

	market participation assumption. Where required, historically observed price stress scenarios will be supplemented with hypothetical stresses to ensure that haircuts are conservative.		
Key Consideration 4	Assessment of the Key Consideration	Rating	Recommendation
An FMI should avoid concentrated holdings of certain assets where this would significantly impair the ability to liquidate such assets quickly without significant adverse price effects.	JSE Clear stated that to reduce liquidity risk in the normal course of business and in the event of a participant default, a certain percentage of the initial margin requirement must be covered by Rand cash. The remainder of a market participant's initial margin obligation may be covered in acceptable securities.	Observed	None
	Furthermore, JSE Clear will impose limits on the aggregate amount of each security that it will accept from a clearing member and its trading members and clients to avoid undue concentration of collateral in a particular security (or asset class, type of security, obligor etc.) and ensure collateral can be liquidated within the predefined liquidation period used in determining valuation haircuts. This		

	aggregate amount will be used to determine account level limits such that the sum of the account level limits does not exceed the aggregate limit. Additionally, a percentage limit will be applied at the account level such that a participant will not be able to cover more than a specified percentage of their exposure in any one security. This limit supports the ability to ensure a diversified collateral basket.		
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Key Consideration 5	Assessment of the Key Consideration	Rating	Recommendation
An FMI that accepts cross-border collateral should mitigate the risks associated with its use and ensure that the collateral can be used in a timely manner.	border collateral and does not intend	Observed	None
Key Consideration 6	Assessment of the Key Consideration	Rating	Recommendation
An FMI should use a collateral management system that is well-designed and operationally flexible.	The JSE Clear securities collateral solution makes use of Strate's Collateral Management System (provided by Clearstream). The primary features of this solution are:	Observed	None
	Pledge between collateral giver and collateral receiver.Defining and pledging collateral as required by JSE Clear.		

- Applying JSE Clear's list of eligible securities, security valuations and haircuts.
- Application of valuation haircuts and concentration limits.
- Wrong way risk management.
- Intra-day and EOD revaluation of collateral with top-ups and releases of collateral.
- Collateral substitution.
- Pledging of securities collateral against initial margin call - daily at SOD
- Withdrawals of securities collateral (substitute with cash) - daily at SOD.

JSE Clear will not permit the reuse of collateral. All collateral will be pledged directly to JSE Clear. Lastly, the CCP and ICH stated that the entity will be sufficiently staffed to manage both the operational and risk aspects of the collateral solution.

Principle 6: Margin

A CCP should cover its credit exposures to its participants for all products through an effective margin system that is risk-based and regularly reviewed.

Overall Rating Observed

Overall Comment:

Sufficient evidence was reviewed to assess the risk-based margin system of JSE Clear.

Key consideration 1	Assessment of the Key	Rating	Recommendation
	Consideration		
A CCP should have a margin system that	JSE Clear has an established margin	Observed	None
establishes margin levels commensurate	policy and methodology.		
with the risks and particular attributes of			
each product, portfolio, and market it	JSE Clear manages its current		
serves.	exposures to clearing members by		
	performing at least one scheduled		
	mark-to-market settlement cycle		
	daily, where profits and losses are		
	realized through variation margin		
	payments.		
	The portfolio level determinants of		
	credit exposure are as follows		
	(across all products and markets		
	cleared by JSE Clear):		

- The historic price volatility of the positions in the portfolio (including price volatility during times of stress);
- The liquidity of the positions in the portfolio;
- The degree to which the prices of the positions in the portfolio are correlated (including price correlation during times of stress); and
- The extent to which the positions in the portfolio are concentrated.

The JSE Clear Rules stipulate that margin payments must be made by 10h00 on each business day, which applies to all clearing members. Clearing members are required to have operationally resilient payment processes and adequate liquidity. Failure to meet the daily payment deadline may be considered a default event, which would result in JSE Clear implementing its default management framework.

All clearing members are locally based and fall within the South African time zone.

Key Consideration 2	Assessment of the Key Consideration	Rating	Recommendation
A CCP should have a reliable source of timely price data for its margin system. A CCP should also have procedures and sound valuation models for addressing circumstances in which pricing data are not readily available or reliable.	JSE Clear has direct access to the	Observed	None
	JSE Clear only sources pricing information from reputable third-party data providers.		
	Internal controls and contingency measures are in place to ensure that any data that feeds into the margin system is timely and reliable.		
	Daily validation (e.g. checking for price variances, zero prices) is performed in order to identify possible anomalies.		
	Access to reliable, readily available price data is one the critical aspects which JSE Clear assesses before		

Key Consideration 3	Assessment of the Key Consideration	Rating	Recommendation
	Valuation models are independently validated in accordance with the JSE Group Model Governance Framework.		
	JSE Clear only sources prices from observable markets or reputable independent vendors.		
	admitting a product for clearing. More specifically, JSE Clear does not clear products where it does not have access to readily available, reliable pricing data.		

A CCP should adopt initial margin models and parameters that are risk-based and generate margin requirements sufficient to cover its potential future exposure to participants in the interval between the last margin collection and the close out of positions following a participant default. Initial margin should meet an established single-tailed confidence level of at least 99 percent with respect to the estimated distribution of future exposure. For a CCP that calculates margin at the portfolio level, this requirement applies to each portfolio's distribution of future exposure. For a CCP that calculates margin at more-granular levels, such as at the subportfolio level or by product, the requirement must be met for the corresponding distributions of future exposure. The model should (a) use a conservative estimate of the time horizons for the effective hedging or close out of the particular types of products cleared by the CCP (including in stressed market conditions), (b) have an appropriate method for measuring credit exposure that accounts for relevant product risk factors and portfolio effects across products, and (c) to the extent practicable and prudent, limit the need for destabilising, procyclical changes.

The base initial margin for a position in a single contract is calculated through a historical value-at-risk methodology, with a 2-day liquidation period, a 99.7% confidence level, and a rolling 3 year look-back period supplemented with a 1-year stressed period of risk.

Portfolio offsets are determined by considering historic price correlations (including price correlations during times of stress).

Back-testing is performed daily to ensure that the 99.7% coverage level is maintained.

The initial margin model, together with the inputs (e.g. liquidation period, confidence interval and lookback period) are determined in accordance with the CCP's risk appetite and regulatory requirements and considering industry best practices.

In light of the products JSE Clear currently clears, and the collateral it currently accepts, the CCP and ICH does not believe that "Wrong-way Risk" is a significant factor to be Observed None

	considered. JSE Clear currently only clears exchange traded derivatives with exposures in stock futures and options not constituting a material proportion of total cleared exposure. JSE Clear accepts ZAR cash as collateral and with the launch of its securities collateral service accepts government bonds only. The impact of wrong-way risk is considered as part of the new product / service offering approval process.		
Key Consideration 4	Assessment of the Key Consideration	Rating	Recommendation
A CCP should mark participant positions to market and collect variation margin at least daily to limit the build-up of current exposures. A CCP should have the authority and operational capacity to make intraday margin calls and payments, both scheduled and unscheduled, to participants.	variation margin is calculated daily for all positions on a client level.		None

	marked-to-market on such basis as JSE Clear may determine. Authority is provided in the JSE Clear Rules. Rule 5.3.2 states: 'JSE Clear may, at any time on any business day, mark-to-market the position in any exchange contract or contracts of any exchange member or client if, in its sole discretion, the risk posed by any exchange member or client, or the conditions in the market for the exchange contract or its underlying instrument warrant such additional mark-to-market.' JSE Clear has the operational capacity to make and complete intraday margin calls for both initial and variation margin.		
Key Consideration 5	Assessment of the Key Consideration	Rating	Recommendation
In calculating margin requirements, a CCP may allow offsets or reductions in required margin across products that it clears or between products that it and another CCP clear, if the risk of one product is significantly and reliably correlated with the risk of the other product. Where two or more CCPs are authorised to offer cross-margining, they	JSE Clear allows initial margin offsets between contracts in the same asset class that are highly correlated i.e., between contracts on different but highly correlated underlyings and between contracts on the same underlying with different expiry	Observed	None

must have appropriate safeguards and harmonised overall risk-management systems.			
Key Consideration 6	Assessment of the Key Consideration	Rating	Recommendation
A CCP should analyse and monitor its model performance and overall margin coverage by conducting rigorous daily back-testing and at least monthly, and more frequent where appropriate, sensitivity analysis. A CCP should regularly conduct an assessment of the theoretical and empirical properties of its margin model for all products it clears. In conducting sensitivity analysis of the model's coverage, a CCP should take into account a wide range of parameters and assumptions that reflect possible market	and comparing these to the cumulative change in variation margin which was accrued by the clearing member, trading member and client accounts over the assumed liquidation period. Any negative changes in variation margin which exceed the associated initial margin are flagged as	Observed	None

periods that have been experienced by the markets it serves and extreme changes in the correlations between prices.	99.8% and is reported on a quarterly basis to the JSE Clear Risk Committee. Back-testing is performed on a contract and portfolio level on a daily basis. JSE Clear does not have cross margining across asset classes and with other CCPs. The following actions (amongst others) can be taken: - Increase initial margin requirements (e.g. by adjusting margin parameters); - Increase the size of the JSE Clear default fund; and		
	- Perform an intra-day mark-to- market settlement cycle.		
Key Consideration 7	Assessment of the Key Consideration	Rating	Recommendation
A CCP should regularly review and validate its margin system.	The margin policy and methodology are reviewed and approved annually by the JSE Clear Risk Committee.	Observed	None
	The margin system undergoes regular independent validation in accordance with the Model		

Governance Framework. Material model changes and new models are validated before the changed or new model is used in production.

The method and results of the independent validation of models are communicated to the JSE Clear Risk Committee, JSE Clear Risk Advisory Committee and JSE Group Model Governance Committee.

Principle 7: Liquidity Risk

An FMI should effectively measure, monitor, and manage its liquidity risk. An FMI should maintain sufficient liquid resources in all relevant currencies to effect same day and, where appropriate, intraday and multiday settlement of payment obligations with a high degree of confidence under a wide range of potential stress scenarios that should include, but not be limited to, the default of the participant and its affiliates that would generate the largest aggregate liquidity obligation for the FMI in extreme but plausible market conditions.

Overall Rating: Observed

Overall Comment:

Sufficient evidence was presented to demonstrate the measuring and monitoring and management of JSE Clear's liquidity risk, and the maintenance of sufficient liquid resources to effect settlements.

Key consideration 1	Assessment of the Key	Rating	Recommendation
	Consideration		
An FMI should have a robust framework	JSE Clear's liquidity risks arise from	Observed	None
to manage its liquidity risks from its	the need for JSE Clear to settle the		
participants, settlement banks, nostro	variation margin obligation of a		
agents, custodian banks, liquidity	defaulting clearing member utlising		
providers, and other entities.	the initial margin collateral held		
	against that clearing member's		
	exposures.		
	Initial Margin is invested by JSE		
	Clear in accordance with the		
	investment mandate which specifies		
	liquidity limits to ensure that sufficient		
	initial margin is available on call to		

Key Consideration 2	Assessment of the Key Consideration	Rating	Recommendation
	All of JSE Clear's cashflows are in ZAR. JSE Clear's liquidity needs can stem from a clearing member default, an operational incident, the failure of its settlement bank, the failure of an investment bank with which prefunded resources are invested or the need to return initial margin to clearing members.		
	To reduce the daily liquidity requirements regarding clearing member margin payments, JSE Clear nets payments across all markets per clearing member.		
	settle a defaulter's obligations. Liquidity risks may also arise from operational events impacting JSE Clear and the need to make initial margin payments to clearing members when exposures are reduced and margin needs to be returned (e.g. after futures closeouts).		

An FMI should have effective operational and analytical tools to identify, measure, and monitor its settlement and funding flows on an ongoing and timely basis, including its use of intraday liquidity.	Payments (of margin obligations and default fund contributions) are initiated via the JSE Clear Payment Clear House through central bank systems. JSE Clear monitors for the settlement confirmations through the South African Reserve Bank payments systems. The Real-Time Clearing system (RTC) also allows for monitoring of daily incoming SWIFT settlements i.e., the daily net settlements per clearing member across all JSE Clear markets. Further, the JSE Finance department monitors cash flows daily through the Omega system. This allows access to daily information on cash flows through JSE Clear. Along with this system, the JSE Finance department does reconciliations of all cash flows regularly.		None
Key Consideration 3	Assessment of the Key Consideration	Rating	Recommendation
A payment system or SSS, including one employing a DNS mechanism, should maintain sufficient liquid resources in all relevant currencies to effect same-day settlement, and where appropriate intraday or multiday settlement, of payment obligations with a high degree of	•	Observed	None

confidence under a wide range of time to work out average movements potential stress scenarios that should include, but not be limited to, the default of the participant and its affiliates that The aim of stress testing for liquidity would generate the largest aggregate payment obligation in extreme but has sufficient liquid resources to plausible market conditions.

per day.

risk is to assess whether JSE Clear meet intra-day and multi-dav payment obligations, under stressed conditions.

For liquidity risk stress testing, scenarios could relate to the default of a clearing member or to operational events impacting JSE Clear, its settlement bank or one of its investment banks. The specific scenarios are detailed in JSE Clear Stress Testing Scenarios document. To quantify the liquidity needs of JSE Clear under any of these scenarios, we investigate JSE Clear's peak liquidity needs. Any historic adjustments needed to account for stressed market conditions are made, and the final cash flow need arising from the stress event is determined.

The liquidity stress scenarios considered are:

Default of a clearing member.

	- JSE Clear Settlement bank can't		
	process variation margin.		
	- JSE Clear margin investment		
	bank can't process initial margin		
	pay-out.		
	- JSE Clear can't receive or make		
	any payments.		
	- Default of a clearing member that		
	is also an investment bank.		
	As the quantification is very exactic		
	As the quantification is very specific to each stress scenario, the details of		
	,		
	the quantification is discussed in the		
	JSE Clear Stress Testing Scenarios		
	document. The final step in the		
	liquidity stress testing methodology is		
	to compare the stressed liquidity needs to JSE Clear's available		
	financial resources and escalate the		
	need for additional resources		
	appropriately.		
	Liquidity stress testing calculations		
	are conducted daily and reported on		
	a monthly basis to the JSE Risk Exco		
	and on a quarterly basis to the JSE		
	Clear Risk Advisory Committee and		
	Risk Committee, as per the JSE		
	Clear Stress Testing Policy.		
	C.C.S. Caroos rosang ronoy.		
Key Consideration 4	Assessment of the Key	Rating	Recommendation
	Consideration		

A CCP should maintain sufficient liquid resources in all relevant currencies to settle securities-related payments, make required variation margin payments, and meet other payment obligations on time with a high degree of confidence under a wide range of potential stress scenarios that should include, but not be limited to, the default of the participant and its affiliates that would generate the largest aggregate payment obligation to the CCP extreme but plausible market conditions. In addition, a CCP that is involved in activities with a more-complex risk profile or that is systemically important in multiple jurisdictions should consider maintaining additional liquidity resources sufficient to cover a wider range of potential stress scenarios that should include, but not be limited to, the default of the two participants and their affiliates that would generate the largest aggregate payment obligation to the CCP in extreme but plausible market conditions.

JSE Clear conducts daily liquidity stress testing to assess its variation margin and other payment obligations against available liquid resources.

Scenarios cover the default of a clearing member, operational events impacting JSE Clear, its settlement bank and/or one of its investment banks and an assessment of the maximum net margin payments due by JSE Clear to its clearing members. The specific scenarios are detailed in JSE Clear Stress Testing Scenarios document. The liquidity stress scenarios considered are:

- Default of a clearing member under extreme but plausible market conditions.
- JSE Clear Settlement bank can't process variation margin.
- JSE Clear margin investment bank can't process initial margin pay-out.
- JSE Clear can't receive or make any payments.
- Default of a clearing member that is also an investment bank under extreme but plausible market conditions.

Observed None

As the quantification is very specific to each stress scenario, the details of the quantification are discussed in the JSE Clear Stress Testing Scenarios document. The final step in the liquidity stress testing methodology is to compare the stressed liquidity needs to JSE Clear's available financial resources and escalate the need for additional resources appropriately.

JSE Clear employs and maintains a number of measures, processes and liquid resources to ensure it is able to meet its payment obligations. These include:

- All payments are only affected in ZAR cash, and payments are netted across markets per clearing member to reduce the liquidity movements.
- Net payments are monitored daily and average and peak movements per day reviewed regularly.
- Daily payments to clearing members (outgoing payments) are only paid once incoming payments have been received.

	- Initial margin is invested in		
	accordance with the liquidity limits		
	specified in the investment		
	mandate with a minimum of 30%		
	on call and average and		
	maximum duration limits to		
	ensure sufficient IM available		
	immediately in the event of a		
	clearing member default.		
	- JSE Clear has committed liquidity		
	facilities with five banks (3 local		
	and two international non-clearing		
	member banks) to the value of		
	ZAR 3.1bn.		
	- Liquidity can be invoked against		
	the value of the cash initial margin		
	of the defaulter held by JSE Clear		
	in trust and against the value of		
	securities collateral sold in a		
	default event. JSE Clear will only		
	accept liquid South African		
	government bonds as securities		
	collateral for a portion of a		
	participant's initial margin		
	obligation and concentration limits		
	will apply to ensure that the bonds		
	can be sold with the assumed		
	liquidation period.		
Key Consideration 5	Assessment of the Key	Rating	Recommendation
	Consideration		

For the number of procting its minimum	ICE Clear only clears in 7AD As at	Observed	None
For the purpose of meeting its minimum	1	Observed	None
liquid resource requirement, an FMI's	· ·		
qualifying liquid resources in each	margin balance was R56.7bn with		
currency include cash at the central bank	approximately 30% of this invested		
of issue and at creditworthy commercial	_		
banks, committed lines of credit,	zero-sum game each day, and		
committed foreign exchange swaps, and	account summary reports are		
committed repos, as well as highly	produced on a daily basis (per		
marketable collateral held in custody and	market) showing how much total		
investments that are readily available and	variation margin each clearing		
convertible into cash with prearranged	member has to pay or receive.		
and highly reliable funding arrangements,			
even in extreme but plausible market	JSE Clear has a default fund of		
conditions. If an FMI has access to	R600m that can only be used to		
routine credit at the central bank of issue,	cover losses in the case of a clearing		
the FMI may count such access as part of	member default. Margin and default		
the minimum requirement to the extent it	fund contributions are invested		
has collateral that is eligible for pledging	according to the JSE Clear		
to (or for conducting other appropriate	Investment Mandate (margin and		
forms of transactions with) the relevant	default fund), which specifies liquidity		
central bank. All such resources should	limits e.g. at least 30% of margin		
be available when needed.	must be invested on call.		
	Further to this, committed liquidity		
	lines to the value of ZAR 3.1bn are in		
	place with 5 commercial banks,		
	which can be drawn upon in a		
	liquidity event.		
Key Consideration 6	Assessment of the Key	Rating	Recommendation
. ,	Consideration	3	
	1		I .

An FMI may supplement its qualifying liquid resources with other forms of liquid resources. If the FMI does so, then these liquid resources should be in the form of assets that are likely to be saleable or acceptable as collateral for lines of credit, swaps, or repos on an ad hoc basis following a default, even if this cannot be reliably prearranged or guaranteed in extreme market conditions. Even if an FMI does not have access to routine central bank credit, it should still take account of what collateral is typically accepted by the relevant central bank, as such assets may be more likely to be liquid in stressed circumstances. An FMI should not assume the availability of emergency central bank credit as a part of its liquidity plan.	JSE Clear does not have any other supplemental liquid resources.	N/A	Not Applicable
Key Consideration 7	Assessment of the Key Consideration	Rating	Recommendation
An FMI should obtain a high degree of confidence, through rigorous due diligence, that each provider of its minimum required qualifying liquid resources, whether a participant of the FMI or an external party, has sufficient information to understand and to manage its associated liquidity risks, and that it has the capacity to perform as required under its commitment. Where relevant to		Observed	None

assessing a liquidity provider's performance reliability with respect to a particular currency, a liquidity provider's potential access to credit from the central bank of issue may be taken into account. An FMI should regularly test its procedures for accessing its liquid resources at a liquidity provider.	The setting up of the liquidity lines involved agreeing the requirements for the liquidity lines and the specific conditions under which they will be drawn on. Each of the liquidity facilities is governed by contractual agreements between JSE Clear and the liquidity provider.		
	Processes in relation to accessing the committed liquidity lines have been defined and tested as part of our annual default management testing.		
	The 5 financial institutions that JSE Clear has facilities with are all authorised banks and are regulated by the South African Reserve Bank and have access to credit with the South African Reserve Bank.		
	Processes in relation to accessing the committed liquidity lines have been defined and tested as part of default simulation testing.		
Key Consideration 8	Assessment of the Key Consideration	Rating	Recommendation

An FMI with access to central bank accounts, payment services, or securities services should use these services, where practical, to enhance its management of liquidity risk.	Daily margin payments between JSE Clear and its clearing members are facilitated via SWIFT irrevocable payments messages (to reduce settlement risk) that are transmitted via central bank payments systems (SAMOS). Payments flow via SAMOS due to the high values related to these daily cash movements and their significance in the context of the South African Financial markets. JSE Clear currently has no access to credit at the central bank (SARB).	Observed	None
Key Consideration 9	Assessment of the Key Consideration	Rating	Recommendation
An FMI should determine the amount and regularly test the sufficiency of its liquid resources through rigorous stress testing. An FMI should have clear procedures to report the results of its stress tests to appropriate decision makers at the FMI and to use these results to evaluate the adequacy of and adjust its liquidity risk management framework. In conducting stress testing, an FMI should consider a wide range of relevant scenarios. Scenarios should include relevant peak historic price volatilities, shifts in other market factors such as price determinants	JSE Clear conducts daily liquidity stress testing to assess whether JSE Clear has sufficient liquid resources to meet intra-day and multi-day payment obligations, under stressed conditions. Scenarios cover the default of a Clearing Member, operational events impacting JSE Clear, its settlement bank or one of its investment banks and an assessment of the maximum net margin payments due by JSE Clear to its Clearing Members. The	Observed	None

and yield curves, multiple defaults over various time horizons, simultaneous pressures in funding and asset markets, and a spectrum of forward-looking stress scenarios in a variety of extreme but | To quantify the liquidity needs of JSE plausible market conditions. Scenarios should also take into account the design and operation of the FMI, include all entities that might pose material liquidity risks to the FMI (such as settlement banks, nostro agents, custodian banks, liquidity providers, and linked FMIs), and where appropriate, cover a multiday period. In all cases, an FMI should document its supporting rationale for, and should have appropriate governance arrangements relating to, the amount and form of total liquid resources it maintains.

specific scenarios are detailed in JSE Clear Stress Testing Scenarios document.

Clear under any of these scenarios, we investigate JSE Clear's peak historic liquidity needs. Any adjustments needed to account for stressed market conditions are made, and the final cash flow need arising from the stress event is determined.

liquidity The stress scenarios considered are:

- Default of a clearing member under extreme but plausible scenarios.
- JSE Clear Settlement bank can't process variation margin.
- JSE Clear margin investment bank can't process initial margin pay-out.
- JSE Clear can't receive or make any payments.
- Default of a clearing member that is also an investment bank under extreme but plausible scenarios.

Clear Stress Testing Policy.	
Liquidity stress testing calculations are conducted daily and reported on a monthly basis to the JSE Risk Exco and on a quarterly basis to the JSE Clear Risk Advisory Committee and Risk Committee, as per the JSE	
As the quantification is very specific to each stress scenario, the details of the quantification are discussed in the JSE Clear Stress Testing Scenarios document. The final step in the liquidity stress testing methodology is to compare the stressed liquidity needs to JSE Clear's available financial resources and escalate the need for additional resources appropriately.	

An FMI should establish explicit rules and procedures that enable the FMI to effect same-day and, where appropriate, intraday and multiday settlement of payment obligations on time following any individual or combined default among its participants. These rules and procedures should address unforeseen potentially uncovered liquidity shortfalls and should aim to avoid unwinding, revoking, or delaying the same-day settlement of payment obligations. These rules and procedures should also indicate the FMI's process to replenish any liquidity resources it may employ during a stress event, so that it can continue to operate in a safe and sound manner.

The JSE Clear Rules define the consequences of a clearing member default and the actions that JSE Clear will take to manage the default. The JSE Clear Default Fund Policy and Default Management Policy documents further define approach and actions JSE Clear will take to manage a default and settle the obligations of the defaulting clearing member.

As per the JSE Clear's Rules and the JSE Clear Liquidity and Default Management policies, in the event of a clearing member default, JSE Clear will utilise incoming variation margin payments from healthy clearing members plus the JSE Clear liquidity lines up to the value of the defaulter's initial margin in order to settle market participants during the default process prior to the close out of the defaulted portfolio.

Observed None

Principle 8: Settlement finality

An FMI should provide clear and certain final settlement, at a minimum by the end of the value date. Where necessary or preferable, an FMI should provide final settlement intraday or in real time.

Overall Rating Observed

Overall Comment:

Settlement is effected in money of the clearing members settlement banks or by means of entries passed through the Reserve Bank settlement system or a designated settlement system.

Key consideration 1	Assessment of the Key Consideration	Rating	Recommendation
An FMI's rules and procedures should clearly define the point at which settlement is final.		Observed	None

Settlement Banks each signing the PCH agreement.

The NPS Act provides clarity regarding the finality of settlement through the JSE Clear PCH:

- 5. Settlement provision:
- 1. Settlement is effected in money of the clearing members settlement banks or by means of entries passed through the Reserve Bank settlement system or a designated settlement system.
- 2. A settlement that has been effected in money or by means of an entry to the credit of the account maintained by a settlement system participant in the Reserve Bank settlement system or a designated settlement system is final and irrevocable and may not be reversed or set aside.
- 3. An entry to / or payment out of the account of a designated settlement system participant to settle a payment or settlement obligation in a designated settlement system is final and irrevocable and may not be reversed or set aside.

Key Consideration 2	Assessment of the Key Consideration	Rating	Recommendation
An FMI should complete final settlement no later than the end of the value date, and preferably intraday or in real time, to reduce settlement risk. An LVPS or SSS should consider adopting RTGS or multiple-batch processing during the settlement day.	JSE Clear provides for settlement on	Observed	None
	Payments are monitored through the JSE Clear PCH and escalated where payments are not made timeously. Payments are effected using SWIFT as irrevocable immediate settlements.		
	JSE Clear does allow for intraday margining, where Clearing Members have to transfer money to JSE Clear, which is done via clearing member settlement bank funds.		
	JSE Clear is able to enact intraday margining, as per the process described in the Intraday Margin Call Policy:		
	- JSE Clear conducts a market assessment.		

Kay Canaidayatian 2	 Intraday margin shortfall calculations are conducted against predefined thresholds. A crisis meeting is held to approve the IMC. JSE Clear notifies relevant CM of intention to issue and IMC by latest 14h00 SAST. JSE Clear issues IMC and the CM is required to make payment no later than 60 mins thereafter Margin settlement must take place before 15h00 SAST. This will be done via JSE Clear PCH. 	Deting	Recommendation
Key Consideration 3	Assessment of the Key Consideration	Rating	Recommendation
An FMI should clearly define the point after which unsettled payments, transfer instructions, or other obligations may not be revoked by a participant.	JSE Clear defines the point of irrevocability to be when the clearing members balance positions and cash movements back to the clearing house. Prohibition of revocation is done via declaration of default. The member may be deemed to be in default if no payment is received. Revocation may occur when there are systems or process errors. JSE Clear is the only party allowed to revoke (and replace) the payments.	Observed	None

|--|

Principle 9: Money settlements

An FMI should conduct its money settlements in central bank money where practical and available. If central bank money is not used, an FMI should minimise and strictly control the credit and liquidity risk arising from the use of commercial bank money.

Overall Rating: Observed

Overall Comment:

JSE Clear does not settle in central bank money and has demonstrated that it assesses and addresses the credit and liquidity risk arsing from the use of commercial bank money for settlements.

Key consideration 1	•	Rating	Recommendation
A 50 41 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Consideration		
An FMI should conduct its money	,	Observed	None
settlements in central bank money, where	payments of Initial and Variation		
practical and available, to avoid credit and	margin as well as booking fees		
liquidity risks.	through the central bank payment		
	system (SAMOS) via the JSE Clear		
	PCH using SWIFT messaging		
	(ISO20022).		
	JSE Clear PCH only uses settlement		
	banks appointed by the Payment		
	Association of South Africa and		
	which are approved and regulated		
	by the central bank.		
	by the Central Dank.		

	JSE Clear completes money settlements in ZAR only - no foreign currencies. JSE Clear does not settle using central bank funds, however, payments done to/from the JSEC clearing members are processed through the JSE Clear PCH and the actual settlement instructions flow via the central bank payment system.		
Key Consideration 2	Assessment of the Key Consideration	Rating	Recommendation
If central bank money is not used, an FMI should conduct its money settlements using a settlement asset with little or no credit or liquidity risk	requirements for applicants wishing	Observed	None
	JSE Clear monitors the credit standings of the clearing members on an ongoing basis through assessing external credit ratings, exposures, margin-to-exposure ratios, market data and review of operational procedures and		

	processes which support the clearing business and a demonstration of the adequacy of all current and planned arrangements is monitored. A competitive bidding process was completed and the current settlement bank was approved via that process. JSE Clear has back up accounts with an alternative commercial bank which are tested as part of production operations at least annually.		
Key Consideration 3	Assessment of the Key Consideration	Rating	Recommendation
If an FMI settles in commercial bank money, it should monitor, manage, and limit its credit and liquidity risks arising from the commercial settlement banks. In particular, an FMI should establish and monitor adherence to strict criteria for its settlement banks that take account of, among other things, their regulation and supervision, creditworthiness, capitalisation, access to liquidity, and operational reliability. An FMI should also monitor and manage the concentration of credit and liquidity exposures to its commercial settlement banks.	Settlement banks are regulated by the South African Reserve Bank (SARB), and as such are required to comply with the requirement stipulated by the regulator in order to maintain their banking license. Should any of the banks' activities prejudice their "licensed" status, the SARB will intervene and take resolutive action immediately. JSE Clear has set minimum entry	Observed	None

rules. The minimum requirement is that a clearing member shall have own funds of R200 million, or such other sum as JSEC may determine

JSE Clear monitors the credit standings of the Clearing Members on an ongoing basis through assessing external credit ratings, exposures, margin-to-exposure ratios, market data and review of operational procedures and processes which support the clearing business and demonstration of the adequacy of all current and planned arrangements is monitored.

Settlement banks are regulated by the South African Reserve Bank (SARB), and as such are required to comply with the requirement stipulated by the regulator in order to maintain their banking license. Should any of the banks' activity prejudice their "licensed" status, the SARB will intervene and take resolutive action immediately.

In addition to its existing approach, JSE Clear will conduct a review of clearing member banks' capital

	adequacy and liquidity positions, as presented in their quarterly Pillar 3 disclosures. JSE Clear will monitor relevant capital and liquidity adequacy ratios, including Common Equity Tier 1 (CET1) ratios, Tier 1 ratios, Total Capital ratios and Liquidity Coverage ratios. These ratios will be monitored against accepted minimum benchmarks and for material movements from one quarter to the next. Any concerns identified during any of JSE Clear's monitoring processes will be discussed with the clearing member bank concerned and escalated to the regulatory bodies		
	as appropriate.		
Key Consideration 4	Assessment of the Key Consideration	Rating	Recommendation
If an FMI conducts money settlements on its own books, it should minimise and strictly control its credit and liquidity risks.		Observed	None
Key Consideration 5	Assessment of the Key Consideration	Rating	Recommendation

An FMI's legal agreements with any	The Derivatives Margin Service	Observed	None
settlement banks should state clearly	Agreement, which is signed by JSE		
when transfers on the books of individual	Clear and each of the settlement		
settlement banks are expected to occur,	banks covers aspects such as when		
that transfers are to be final when effected,	transfers occurs, etc.		
and that funds received should be			
transferable as soon as possible, at a	Further the National Payment		
minimum by the end of the day and ideally	System Act, which governs over the		
intraday, in order to enable the FMI and its	settlements, states that payments		
participants to manage credit and liquidity	are irrevocable.		
risks.			

Principle 10: Physical Deliveries

An FMI should clearly state its obligations with respect to the delivery of physical instruments or commodities and should identify, monitor, and manage the risks associated with such physical deliveries.

Overall Rating: Observed

Overall Comment:

The JSE Rules define JSE Clear's obligations and responsibilities with respect to delivery of physical instrument and commodities.

Key consideration 1	Assessment of the Key	Rating	Recommendation
	Consideration		
An FMI's rules should clearly state its	Commodities (All the grain products	Observed	None
obligations with respect to the delivery of	- Wheat, maize, soy etc.):		
physical instruments or commodities.	,		
	1. White Maize		
	2. Yellow Maize		
	3. Bread Milling Wheat		
	4. Sunflower Seed		
	5. Soybeans		
	6. Sorghum		
	JSE Clear is responsible for the		
	facilitation of the delivery process.		
	We administer invoicing (to both		
	buyer and seller), VAT compliance,		
	with clearing members guaranteeing		

	that good delivery takes place. JSE Clear also approves the silo facilities, as well as vetting the silo operators. Equity and Bond Physical Deliveries: 1. Equities. 2. Bonds. JSE Clear is responsible for the facilitation of the delivery process. On expiry, JSE Clear creates delivery obligations for the underlying securities and the positions are closed out at the close-out prices. The delivery notifications are sent to the trading members for physical delivery. Settlement margin is held until physical delivery has taken place in the underlying market. Physical delivery details are in the JSE Rules and contract specifications.		
Key Consideration 2	Assessment of the Key Consideration	Rating	Recommendation
An FMI should identify, monitor, and manage the risks and costs associated with the storage and delivery of physical instruments or commodities.	The operational processes in relation to the physical delivery are	Observed	None

The monthly stock reports are received from each of the silo managers, these are also confirmed by the annual audits. The JSE have implemented random checks of each of the warehouses used.

Additional reporting is also done, where JSE Clear can compare the total capacity of a particular silo, and all the receipts that have been issued in respect of that facility and not only JSE original transferable silo receipts issued.

Principle 13: Participant-default rules and procedures

An FMI should have effective and clearly defined rules and procedures to manage a participant default. These rules and procedures should be designed to ensure that the FMI can take timely action to contain losses and liquidity pressures and continue to meet its obligations.

Overall Rating: Observed

Overall Comment:

JSE Clear has documented default management rules which has been reviewed and approved. These rules are intended to ensure that JSE Clear is able to contain losses in order to meet obligations.

Key consideration 1	Assessment of the Key Consideration	Rating	Recommendation
An FMI should have default rules and procedures that enable the FMI to continue to meet its obligations in the event of a participant default and that address the replenishment of resources following a default.	how this is identified. The JSE Clear	Observed	None
	- 10.1.1.1 it fails to meet its obligations in respect of a trade or a position in terms of these clearing rules; or		

- 10.1.1.2 JSE Clear determines, in its sole discretion, that it will be unable to meet its obligations in respect of a trade or a position in terms of these clearing rules; or
- 10.1.1.3 its clearing membership is involuntarily terminated.

The JSE Clear Rules specify when and how the liquidity facilities will be used by JSE Clear to meet the obligation of the defaulting clearing member. The use of financial resources in a default to cover losses and contain liquidity pressures is further described in the Default Fund Policy, Default Management Policy and Liquidity Policy.

The JSE Clear Rules and Default Fund Policy specify the order in which the various financial resources will be accessed (i.e. the Default Waterfall). The Initial Margin already paid by the defaulting member forms the first line of defence. Should initial margin be insufficient the default fund will be accessed - first the defaulting member's contribution, then the JSE Clear contribution, and thereafter the contributions of the non-defaulting members.

Key Consideration 2	Assessment of the Key Consideration	Rating	Recommendation
An FMI should be well prepared to implement its default rules and procedures, including any appropriate discretionary procedures provided for in its rules.	The JSE Clear Default Management Committee Terms of Reference provides the structure and terms of reference for the Default Management Group Committee ("DMGC") that will make decisions regarding the default of a clearing member. The committee will oversee the operational aspects of the management of a clearing member default and its actions will be guided by the JSE Clear Default Management Policy.	Observed	None
	The JSE Clear Default Management Process document describes when default-related activities need to be initiated, which parties need to take responsibility for which actions, and what the decision-making expectations of each of the different role-players should be. Additional detail is provided for discretionary procedures that need to be contemplated.		

Key Consideration 3	Consideration	Rating	Recommendation
An FMI should publicly disclose key aspects of its default rules and procedures.	The JSE Clear Rules, Default Fund Policy and Default Management Policy are publicly available on the JSE's website, and the JSE Clear default management procedure documents have been widely distributed via JSE Clear's various governance committees and participants of the annual default simulations. The replenishment of resources following a default is covered in the Rules and the Default Fund Policy. These documents cover: o the circumstances in which action may be taken; o who may take those actions; o the scope of the actions which may be taken, including the treatment of both proprietary and customer positions, funds and assets;	Observed	None

	 the mechanisms to address an FMI's obligations to non-defaulting participants; and where direct relationships exist with participants' customers, the mechanisms to help address the defaulting participant's obligations to its customers. Market Participants (trading members, clearing members and Regulators) are also involved in the annual default simulation. 		
Key Consideration 4	Assessment of the Key Consideration	Rating	Recommendation
An FMI should involve its participants and other stakeholders in the testing and review of the FMI's default procedures, including any close-out procedures. Such testing and review should be conducted at least annually or following material changes to the rules and procedures to ensure that they are practical and effective.	JSE Clear performs tests of its default procedures or "simulations" with the various market participants annually. The last test was conducted in November 2023. The CCP and ICH further endeavours to test scenarios and procedures that have not previously been tested and or procedures that have been enhanced or require stakeholder education and review, in each of its fire-drills.	Observed	None

The results are used to improve and enhance default management processes with any changes necessary to the Rules, policies, procedures or systems identified and actioned.

The Default Procedure testing covers the default of the following entities:

- Default of a DCM (Direct Clearing Member)
- Default of a GCM (General Clearing Member)
- Default of a Trading Member and Trading Member client

Principle 14: Segregation and portability

A CCP should have rules and procedures that enable the segregation and portability of positions of a participant's customers and the collateral provided to the CCP with respect to those positions.

Overall Rating: Observed

Overall Comment:

JSE Clear was able to demonstrate its segregation arrangements, segregated accounts and its segregation of collateral received from clients.

Key consideration 1	Assessment of the Key	Rating	Recommendation
	Consideration		
A CCP should, at a minimum, have	Identification: JSE Clear requires	Observed	None
segregation and portability arrangements	that all clients be registered with the		
that effectively protect a participant's	JSE, before a member trades for or		
customers' positions and related collateral	on behalf of a client. This registration		
from the default or insolvency of that	process involves the provision of		
participant. If the CCP additionally offers	detailed client information, all of		
protection of such customer positions and	which is stored by JSE, and captured		
collateral against the concurrent default of	under a unique client identifier.		
the participant and a fellow customer, the	·		
CCP should take steps to ensure that such	Segregation: The JSE and JSE		
protection is effective.	Clear rules and trading and clearing		
	systems utilised enable the full		
	segregation of margin, collateral and		
	positions between clearing members,		
	members and their clients. Trading		
	members and clearing members are		

required to, at all times, retain additional and retained margin in a trust account. The applicable rules state, in peremptory terms, that all assets of market participants have to be segregated. This segregation is compulsory to client level and client assets are always segregated and held separate from the assets of a participant.

Collateral: JSE Clear still mainly collects initial margin by way of cash collateral which is registered against the client or trading member account, enabling segregation of collateral.

The protection to clients is afforded by the rules of the exchange and CCP. These rules are enforced by the JSE and JSE Clear and the segregation of all funds and assets between participants/customers (as well as customers/lower-level clients) ensures that this protection is effective. Section 35A of the Insolvency Act provides that the liquidator or trustee of an insolvent estate is bound by all the rules and practices of the JSE.

Kay Canaidaration 2	JSE Clear has processes in place that allow for portability to occur at multiple levels (client and / or Member). Assessment of the Key	Dating	Recommendation
Key Consideration 2	Consideration		Recommendation
A CCP should employ an account structure that enables it readily to identify positions of a participant's customers and to segregate related collateral. A CCP should maintain customer positions and collateral in individual customer accounts or in omnibus customer accounts.	In terms of the JSE Rules all clients must be registered with the JSE, before a member trades for or on behalf of a client. The JSE and JSE Clear Rules and the trading and clearing systems used enable the full segregation of margin, collateral and positions between clearing members, members and their clients. JSE Clear collects initial margin mainly by way of cash collateral which is registered against the client or Trading Member account (i.e., the principal account)— enabling segregation of collateral. Collateral held is in the form of initial margin (and additional margin where called for by the trading members for clients and clearing members for trading members). Initial margin	Observed	None

	including the losses incurred	1	
	liquidating positions held in	a	
	particular defaulting account.		
	Currently JSE Clear receives ZA	2	
	cash mainly as collateral.		
	Cash mainly as soliatoral.		
Key Consideration 3	Assessment of the Ke	Rating	Recommendation
	Consideration		
A CCP should structure its portability	In the instance of trading member	r Observed	None
arrangements in a way that makes it highly	default, the associated clearin		
likely that the positions and collateral of a	member is obliged to take on th		
defaulting participant's customers will be	clients of the failing trading membe		
transferred to one or more other	as per the JSE Clear rules (10.3.1.5		
participants.			
participants.	In the instance of a clearing member	r	
	In the instance of a clearing member		
	default, JSE Clear will attempt to po		
	the healthy trading members to the		
	other remaining clearing member		
	and a trading member who is porte		
	must conclude a clearing agreemer		
	with its new clearing member, failin	g	
	which the positions of the tradin	g	
	member will be closed out. Refer t		
	JSE Clear rules (10.2.7, 10.2.9)		
	, , , , , , , , , , , , , , , , , , , ,		
	In the case of a trading member	r	
	failure, no consent is required of th		
	clearing member. This is specifie		
	under section 12.30.6 of the		
	Derivative Rules, and no exception		
	are allowed.		

	In the case of a clearing member default, JSE Clear will attempt to port the healthy trading members to the other remaining clearing members. The porting procedure is detailed in JSE Clear's Default Management Process document.		
Key Consideration 4	Assessment of the Key Consideration	Rating	Recommendation
A CCP should disclose its rules, policies, and procedures relating to the segregation and portability of a participant's customers' positions and related collateral. In particular, the CCP should disclose whether customer collateral is protected on an individual or omnibus basis. In addition, a CCP should disclose any constraints, such as legal or operational constraints, that may impair its ability to segregate or port a participant's customers' positions and related collateral.	The JSE and JSE Clear Rules and the porting process document are available on the JSE's website.	Observed	None
	There are limited uncertainties with regards to JSE Clear's porting arrangements. The risk that a new clearing member may not conclude a clearing agreement with a trading member of a defaulting clearing member is commonly understood in the market. Recognising the practical challenges with porting, the sizing of		

Principle 15: General business risk

An FMI should identify, monitor, and manage its general business risk and hold sufficient liquid net assets funded by equity to cover potential general business losses so that it can continue operations and services as a going concern if those losses materialise. Further, liquid net assets should at all times be sufficient to ensure a recovery or orderly wind-down of critical operations and services.

Overall Rating: Observed

Overall Comment:

JSE Clear has been able to demonstrate how it identifies, monitors, and manages its business risk through its documented policies which are reviewed annually, its periodic reporting of the various risk areas to the various functional areas and governance structures, as well as its funding arrangements which are reported to the Authorities as required by the Authorities.

Key consideration 1	Assessment of the Key	Rating	Recommendation
	Consideration		
An FMI should have robust management and	JSE Clear identifies and monitors	Observed	None
control systems to identify, monitor, and	general business risks through the		
manage general business risks, including	Enterprise Risk Management		
losses from poor execution of business	Framework with the relevant business		
strategy, negative cash flows, or unexpected	owners accountable for managing		
and excessively large operating expenses.	these risks in conjunction with Risk		
	team as second line of defence. The		
	risks are reviewed quarterly and		
	reported to the JSE Clear Risk		
	Committee with key actions noted and		
	tracked.		

	The key business risks are categorised into risk themes: - Strategy execution Strategic partners Operations People IT systems Cyber Compliance/regulatory Business environment. The detailed risk register (log) is reviewed every six months by the JSE Clear Risk Committee. Risks are reported to the Risk Committee and Board on a quarterly basis or as they arise. A broad and consistent framework is applied through existing structures, namely the Enterprise Risk Framework and Risk Appetite and quarterly Enterprise, Financial and Operational risk reports.		
Key Consideration 2	Assessment of the Key Consideration	Rating	Recommendation
An FMI should hold liquid net assets funded by equity (such as common stock, disclosed reserves, or other retained earnings) so that it can continue operations and services as a going concern if it incurs general business	JSE Clear has an established capital management plan that complies with the FMA regulatory capital requirements for central counterparties. This plan includes	Observed	None

losses. The amount of liquid net assets funded by equity an FMI should hold should be determined by its general business risk profile and the length of time required to achieve a recovery or orderly wind-down, as appropriate, of its critical operations and services if such action is taken.

capital specifically for business risk, as well as for investment, operations and wind-down risks.

The investment of JSE Clear capital is governed by the Investment Mandate for own funds. The mandate ensures that JSE Clear has sufficient liquid assets to enable it to apply its capital to address a material risk arising. The mandate requires JSE Clear to identify the main factors that affect the ability to repay funds when needed and to manage this through the application of liquidity limits.

JSE Clear's capital management plan complies with the FMA regulatory capital requirements for central counterparties. As such, capital for business and wind-down risk is currently equal to 6 months of operating expenses (the regulatory minimum).

The entity's internal estimate (determined through consultation with key decision makers in the business) of the time needed for recovery or wind-down is estimated at 4 months as it is a critical market infrastructure.

	The entity holds the higher of the regulatory and economic capital requirement.		
Key Consideration 3	Assessment of the Key Consideration	Rating	Recommendation
An FMI should maintain a viable recovery or orderly wind-down plan and should hold sufficient liquid net assets funded by equity to implement this plan. At a minimum, an FMI should hold liquid net assets funded by equity equal to at least six months of current operating expenses. These assets are in addition to resources held to cover participant defaults or other risks covered under the financial resources principles. However, equity held under international risk-based capital standards can be included where relevant and appropriate to avoid duplicate capital requirements.	JSE Clear's formal Recovery and Resolution Policy sets out the principles and guidelines applicable to the recovery and resolution of the CCP. It describes the scenarios which may trigger a recovery situation, the circumstances under which the CCP can be recovered and the tools that are available to facilitate this recovery. The policy identifies the factors that may impede the CCP's ability to effectively discharge its recovery plan. These relate to market conditions at the time of recovery, the health of other interdependent financial institutions and the willingness of regulators and market participants to continue to support the market infrastructure.	Observed	None
	The JSE Clear capital plan has been designed to comply with the FMA regulations. This plan includes capital amounting to 6 months of operating		

	expenses for business and wind-down.		
	Capital held for business risk forms part of JSE Clear's own funds and its investment is governed by a separate Investment Mandate, namely; the Investment Mandate for JSE Clear own funds. JSE Clear has implemented a capital management plan that complies with the FMA regulatory capital requirements for central counterparties.		
	This plan includes capital for general business risks, which is currently calculated to equal 6 months of operating expenses (the regulatory minimum). This capital is invested in accordance with the Investment Mandate (Own funds) which requires that the funds are invested in cash accounts with reputable financial institutions that meet specified credit ratings.		
Key Consideration 4	Assessment of the Key Consideration	Rating	Recommendation

Assets held to cover general business risk should be of high quality and sufficiently liquid in order to allow the FMI to meet its current and projected operating expenses under a range of scenarios, including in adverse market conditions.	JSE Clear's qualifying capital to cover general business risk comprises of share capital and premiums, retained earnings and reserves. The JSE Clear Board determines the form of capital resources required to cover risk tolerance in its clearing activities and required to fund strategic growth initiatives. Capital held to cover risks associated with investment, operational, legal, business and wind down is invested in accordance with the Investment Mandate (Own funds) which requires that the funds are invested in cash accounts with reputable financial institutions that meet specified credit ratings.	Observed	None
Key Consideration 5	Assessment of the Key Consideration	Rating	Recommendation
An FMI should maintain a viable plan for raising additional equity should its equity fall close to or below the amount needed. This plan should be approved by the board of directors and updated regularly.	JSE Clear has implemented a capital plan that complies with the FMA regulatory capital requirements for central counterparties. This plan includes a capital management policy. JSE Clear will request capital from its parent (which has a 100% ownership of JSE Clear) before seeking alternative means of capital raising.	Observed	None

Principle 16: Custody and investment risks

An FMI should safeguard its own and its participants' assets and minimise the risk of loss on and delay in access to these assets. An FMI's investments should be in instruments with minimal credit, market, and liquidity risks.

Overall Rating: Observed

Overall Comment:

JSE Clear has demonstrated, though its processes and reporting arrangements, that its able to safeguard its own and its participants' assets.

Key consideration 1	Assessment of the Key	Rating	Recommendation
	Consideration		
An FMI should hold its own and its	JSE Clear policy for the investment of	Observed	None
participants' assets at supervised and	funds under management, is captured		
regulated entities that have robust	in the JSE Clear Investment Mandate		
accounting practices, safekeeping	with the primary objective being to		
procedures, and internal controls that fully	minimize the risk exposure in these		
protect these assets.	funds and thereafter to maximize the		
	investment income earned on funds		
	invested. All these funds are		
	administered by the JSE on behalf of		
	JSE Clear.		
	The specific selection criteria are		
	listed in the Investment Mandate,		
	mainly that the banks should be		
	registered and regulated in South		

Africa and that they meet the credit rating criteria.

At present, all funds managed by JSE Clear are invested in a variety of bank accounts spread across a number of banks with a minimum of a "A-1+" or "A-1" rating.

JSE Clear relies on recognised credit rating agencies to assess and compute credit limits for the banks used.

The banks' ratings are regularly monitored to ensure they continue to meet the eligibility criteria.

Reviews by the Rating Agency are typically performed on the banks on an annual basis.

Funds are only invested with banks regulated by the Prudential Authority which provides assurance that the banks have robust practices and internal controls in place.

To further mitigate risk, investment limits are in place specifically to mitigate concentration risk in the

	unlikely event that one of our		
	investment banks defaults.		
Key Consideration 2	Assessment of the Key	Rating	Recommendation
,	Consideration	11000119	
An FMI should have prompt access to its	JSE Clear has established legal	Observed	None
		Observed	NOTIC
assets and the assets provided by	certainty via the investment		
participants, when required.	agreements that it has entered into		
	with each of the institutions it chooses		
	to invest with.		
	Each agreement caters for the		
	required specifications of the		
	investment mandate i.e. the ability of		
	JSE Clear to enact calls for funds on		
	deposit, the ability to determine the		
	specific investment vehicles used,		
	and the terms under which early		
	notifications for withdrawals or		
	transfers are meant to be managed		
	etc.		
Key Consideration 3	Assessment of the Koy	Rating	Recommendation
110y Jonisiaciation o		Rating	Nooniiiidiidatioii
An EMI should evaluate and understand its		Observed	None
		Observed	NOHE
·			
each.	•		
	mitigate concentration risk. Criteria		
	are also set to limit the maximum		
	portion of the funds invested at a		
	•		
Key Consideration 3 An FMI should evaluate and understand its exposures to its custodian banks, taking into account the full scope of its relationships with each.	Assessment of the Key Consideration Multiple investment banks are used, and investments are made across a number of instruments, across a number of markets, all in an effort to mitigate concentration risk. Criteria are also set to limit the maximum portion of the funds invested at a single bank.	Rating Observed	None None

	Monitoring of the exposures that JSE Clear has to each of the institutions with which it invests is done on a daily basis. Daily reports are generated that indicate the amounts on deposit with each bank, the percentage of the total pool this represents, average investment duration and applicable interest rates.		
Key Consideration 4	Assessment of the Key Consideration	Rating	Recommendation
An FMI's investment strategy should be consistent with its overall risk-management strategy and fully disclosed to its participants, and investments should be secured by, or be claims on, high-quality obligors. These investments should allow for quick liquidation with little, if any, adverse price effect.	The philosophy (that underpins the strategy) takes into account the role that JSE Clear plays in maintaining the stability of the market and is wholly aligned with JSE Clear's risk appetite. The management of these funds implies a fiduciary duty to the clearing members, trading members and their respective clients. Consequently, the utmost care must be taken as to where and how these funds are managed. As mentioned previously, the ultimate aim for the management of these funds is therefore to minimise the inherent risks related thereto and thereafter to optimise the return achieved.	Observed	None

The investment strategy is disclosed to the JSE Clear Risk Committee, JSE Clear Board, and JSE Executive Committee. JSE Clear only invests with banks with locally regulated banks with a minimum of a "A-1+" or	
"A-1" rating. JSE Clear does not invest in participants' own securities.	

Principle 17: Operational Risk

An FMI should identify the plausible sources of operational risk, both internal and external, and mitigate their impact through the use of appropriate systems, policies, procedures, and controls. Systems should be designed to ensure a high degree of security and operational reliability and should have adequate, scalable capacity. Business continuity management should aim for timely recovery of operations and fulfilment of the FMI's obligations, including in the event of a wide-scale or major disruption.

Overall Rating: Observed

Overall comment:

JSE Clear has a Risk Management Framework which is implemented across the organization to identify sources of operational risk. Both executive and governance structures have clear duties and responsibilities in respect of risk management and the executive leadership is responsible for risk identification and mitigation on an ongoing basis.

Key consideration 1	Assessment of the Key	Rating	Recommendation
	Consideration		
An FMI should establish a robust operational	The JSE Clear Enterprise Risk	Observed	None
risk-management framework with appropriate	Management Framework and		
systems, policies, procedures, and controls to	Operational Risk Management Policy		
identify, monitor, and manage operational	are in place to ensure that key		
risks.	enterprise and operational risks are		
	identified and appropriately managed		
	by the JSE Clear business in		
	accordance with a defined risk		
	management process. Enterprise		
	risks are categorised into risk types		
	defined within the JSE Clear		
	Enterprise Risk Management		

Framework and includes cleared risks such as Clearing Member credit risk, margin, collateral and default) and other key risks such as settlement, liquidity, Investment and operational risk).

Operational risk management for JSE Clear is aligned to the JSE Limited ERM Framework at market level with key measurements in place for reporting on the operational performance of the clearing system and related processes. The measurements are based on key plausible risks that may materialise across each of the market's value chain.

Specific operational risks are actively managed by front line teams (JSE Clear Operations Team) within the JSE Clear business, in accordance with the JSE Clear Enterprise Risk Management Framework. The JSE Clear Risk Team monitors and manages financial risks (margin, collateral, default, credit) for the clearing business as well as enterprise and operational risks as the second line of defence. The JSE Clear Operations Team is headed up

	by the Chief Operating & Information Officer who ensures accountability and active reporting on status of risks and incidents.		
Key Consideration 2	Assessment of the Key Consideration	Rating	Recommendation
An FMI's board of directors should clearly define the roles and responsibilities for addressing operational risk and should endorse the FMI's operational risk management framework. Systems, operational policies, procedures, and controls should be reviewed, audited, and tested periodically and after significant changes.		Observed	None
	The JSE Clear CEO is dependent on the JSE Clear Chief Risk Officer and the JSE Clear Chief Information/ Operating Officer for the management of day-to-day operational risk efforts including those provided as services to JSE Clear. This is detailed in the JSE Clear Board Charter and the JSE Clear Risk Committee Terms of Reference.		
	The JSE Clear Operational Risk Framework is incorporated in the JSE Clear Enterprise Risk Management		

	Framework, which is approved by the JSE Clear Risk Committee and JSE Clear Board. The framework is reviewed annually by the JSE Clear Risk Committee. Aspects of the Enterprise Risk Management Framework are reviewed on a quarterly basis via the Enterprise Risk Report prepared by the JSE Clear Risk team. The report provides the Risk Committee with an indication of the changing risk profile of the CCP as measured against the key categories of risk applicable to the organisation. The JSE Group Enterprise Risk Management Framework is subject to external audit on an annual basis. JSE Clear Enterprise Risk Management Framework is aligned to that of the group.		
Key Consideration 3	Assessment of the Key Consideration	Rating	Recommendation
An FMI should have clearly defined operational reliability objectives and should have policies in place that are designed to achieve those objectives.	The JSE (as provider of certain services to JSE Clear) has an Enterprise Service Management solution (Service Now) that is aligned to the Information Technology	Observed	None

	Infractivistics Library (ITII) boot		
	Infrastructure Library (ITIL) best		
	practices framework, which facilitates		
	the logging and tracking of mature		
	ITIL aligned Incident, Problem,		
	Change and Release Management		
	Processes. Further to this, it also		
	tracks and reports on the Incident		
	Priority based defined Service Level		
	Agreements.		
	The stated objectives ensure that the		
	systems of JSE Clear perform as		
	required and are available during		
	required business periods. Over and		
	above the business security		
	requirements that have been		
	implemented in the systems (i.e.		
	System-level access control), the		
	JSE Information Security		
	-		
	Management System (ISMS)		
	addresses the preservation of		
	confidentiality, integrity and		
	availability of information and		
	information processing technologies.		
	The JSE and ISMS address		
	governance, risk, compliance,		
	processes, people and technology		
	aspects of information security.		
Key Consideration 4	Assessment of the Key	Rating	Recommendation
Troy Consideration 4	Consideration	rating	1.000mmonauton
	- Consideration		

An FMI should ensure that it has scalable capacity adequate to handle increasing stress volumes and to achieve its service-level objectives.	The JSE undertakes non-functional testing as part of ongoing system enhancements. This includes performance testing to ensure that systems can meet current and future capacity needs.	Observed	None
	Technical designs incorporate capacity projections to ensure new systems can be scaled for projected future volumes - this is reviewed continuously to ensure systems can always cater for the transactional load placed on them.		
	Production environments are monitored in terms of performance to ensure that no capacity constraints are encountered and if required these are discussed at the monthly service level meetings with JSE Clear operations.		
	Any major system or software upgrades are accompanied by performance testing to ensure the non-functional requirements are still adhered to.		
Key Consideration 5	Assessment of the Key Consideration	Rating	Recommendation

An FMI should have comprehensive physical and information security policies that address all potential vulnerabilities and threats.	JSE Clear makes use of physical offices and infrastructure housing facilities owned and managed by the JSE. Physical security is assessed and monitored as part of the overall JSE Risk Framework which then forms part of the Annual review process, and as well as the quarterly report. There is also a physical security section in the IT Security Policy, which stipulates access control to key IT physical infrastructure.	Observed	None
	A JSE Physical Security Policy is currently in place, which is appropriate until such time as JSE Clear opts to stop using the JSE's physical offices.		
	The JSE aligns its information security programme and practices to the ISO 27001 standard, the Information Security Forum (ISF) Standard of Good Practice (SOGP), and is currently in the process of fully moving to the National Institute of Standards and Technology (NIST) cyber security framework.		
Key Consideration 6	Assessment of the Key Consideration	Rating	Recommendation

An FMI should have a business continuity The JSE Group has a Crisis O plan that addresses events posing a significant risk of disrupting operations, including events that could cause a widescale or major disruption. The plan should incorporate the use of a secondary site and should be designed to ensure that critical information technology (IT) systems can resume operations within two hours following disruptive events. The plan should be designed to enable the FMI to complete settlement by the end of the day of the disruption, even in case of extreme circumstances. The FMI should regularly test these arrangements.

Management Policy and Manual which includes the JSE Clear CRO. JSE Clear CEO and JSE Clear CIO/COO as part of the Crisis Management Stakeholders. Additionally, there is a JSE Clear Crisis Management Plan that guides how incidents / outages / disasters are to be managed from a clearing house stakeholder perspective. There is also a JSE Clear Business Continuity Policy and JSE Clear Business Continuity Plan.

IT Operations have an IT Disaster Recovery Plan which speaks specifically to recovery plans in instances of major operational disruptions.

The JSE also conducts a BCP / DR test on an annual basis. The last internal test was done in October 2023.

The JSE Clear has a Crisis Communication Plan that guides how incidents / outages / disasters are to be managed from a Stakeholder perspective. Operationally, the head of each functional area in JSE Clear

bserved	None
bsei veu	NOTIE

(CCO, CRO, CIO/COO) takes responsibility for ensuring that the right stakeholders are kept abreast of crisis efforts.

The JSE Clear Crisis Communication Plan also provides guidance on how any services provided by third parties are incorporated into the recovery processes.

The JSE Crisis Management Manual also guides how communication will be managed depending on type of crisis and relevant stakeholders to be included.

The JSE conducts a full internal as well as a client facing DR BCP test annually involving clearing members and participants. The last internal test based on the PFMI submission was conducted in August 2023 and external facing October 2023. DR BCP tests are independently observed by the JSE's external auditors.

In addition, JSE Clear conducts BCP testing covering all settlement failure scenarios with clearing members, settlement banks, PASA and the

	SARB. Based on the PFMI		
	submission, the last test was		
	conducted in December 2022.		
	conducted in December 2022.		
	A -1-f		
	A default simulation was held in		
	November 2023 and included		
	Clearing Members.		
Key Consideration 7	Assessment of the Key	Rating	Recommendation
110,	Consideration		
An FMI should identify, monitor, and manage	JSE Clear formally completes a risk	Observed	None
		Observed	MOHE
the risks that key participants, other FMIs, and	assessment (JSE Clear Risk Log)		
service and utility providers might pose to its	twice a year where risks within our		
operations. In addition, an FMI should identify,	operations associated with key		
monitor, and manage the risks its operations	participants and third parties are		
might pose to other FMIs.	identified. Our response and controls		
g p = = = = = = = = = = = = = = = = =	are also documented and where		
	action plans are agreed, these are		
	tracked to closure with the action		
	owners.		
	On a monthly basis, a dashboard		
	containing top concerns in respect of		
	our operations is completed and		
	· · · · · · · · · · · · · · · · · · ·		
	reported to the JSE Group Risk		
	Management Committee. Twice a		
	year, the JSE Clear Risk Log is taken		
	to the JSE Clear Risk Committee for		
	review.		
	JSE Clear as the CCP has no other		
	FMIs with which it interacts, and as		

such, no specific risks in this regard have been identified (i.e. nothing has been highlighted for other FMIs: systemically important payment systems, central securities depositories (CSDs), securities settlement systems (SSSs), central counterparties (CCPs), and trade repositories (TRs)).

Additionally, JSE Clear formally completes a risk assessment in which risks on the horizon are considered. Should JSE Clear identify in the near future that it will pose any risks to another FMI these will be assessed, evaluated and appropriate responses in accordance with our risk criteria will be documented, tracked and reported appropriately to the applicable governing Committees.

Principle 18: Access and participation requirements

An FMI should have objective, risk-based, and publicly disclosed criteria for participation, which permit fair and open access.

Overall Rating: Observed

Overall comment:

JSE Clear has objective, fair and risk-based access criteria to its infrastructure which are provided for in the South African regulatory framework. The details of access to its infrastructure are captured in the Rules which are publicly available, including on its website.

Key consideration 1	Assessment of the Key	Rating	Recommendation
	Consideration		
An FMI should allow for fair and open access	JSE Clear applies stringent	Observed	None
to its services, including by direct and, where	membership requirements for all of		
relevant, indirect participants and other FMIs,	its members. Further to this,		
based on reasonable risk related participation	additional requirements with regards		
requirements.	to the continued health of clearing		
	members' financial and operational		
	arrangements need to be fulfilled on		
	an ongoing basis during the course of		
	a clearer's membership which		
	includes:		
	Risk management requirements		
	which include the requirement for		
	clearing members to, at all times,		
	have and maintain the necessary risk		
	procedures, systems, facilities,		

resources and expertise to ensure that an adequate, effective and ongoing process of risk management is established and maintained and a comprehensive and documented risk management framework is established and maintained.

Operational requirements which include the requirement for clearing members to, at all times, have and maintain the necessary procedures, administrative and other systems, controls, facilities, resources and expertise to ensure the efficient and effective performance of its functions as a clearing member; compliance with the FMA Act and the JSE Clear rules; accurate record keeping; adequate management of their own funds and the funds and assets of clients or exchange members and their clients for whom the clearing member performs a clearing service; minimize the risk of loss to the clearing member which results from any irregularity, fraud or error, and to detect any irregularity, fraud or error should they occur so that prompt remedial action may be taken by the clearing member; and that the records of the clearing member are maintained in such a manner as to promptly disclose financial and business information that allows for management of the risk exposures of the clearing member relating to its activities as a clearing member of JSE Clear.

Default Fund requirements which require Clearing Members to pay an amount of default margin to the Default Fund as determined by JSE Clear from time to time, as collateral for the due performance of all or any of its obligations as set out in the clearing rules.

Financial resources requirements which require that a clearing member must at all times have sufficient capital as prescribed in the JSE Clear rules. A clearing member that is a bank or a branch of a foreign bank regulated by the Prudential Authority must meet the capital adequacy requirements imposed by the Prudential Authority.

The own funds of a clearing member that is not a bank or a branch of a foreign bank must at all times be at least equal to R200 million. A clearing

	member must ensure that it has sufficient cash resources or cash		
	facilities to meet its obligations to JSE		
	Clear in terms of these rules at all		
	times. A clearing member that is not		
	a bank or a branch of a foreign bank		
	must procure that its obligations to JSE Clear in terms of the rules are		
	guaranteed by a bank or bank		
	holding company or a foreign bank or		
	foreign bank holding company		
	headquartered in a jurisdiction that		
	substantially adheres to current		
	Basel Capital Requirements.		
Key Consideration 2	Assessment of the Key	Detina	Recommendation
1.0) Condidation =		Rating	Recommendation
-	Consideration		
An FMI's participation requirements should be	Consideration Considering the size of the risks and		None
An FMI's participation requirements should be justified in terms of the safety and efficiency of	Consideration Considering the size of the risks and exposure being underwritten across	Observed	
An FMI's participation requirements should be justified in terms of the safety and efficiency of the FMI and the markets it serves, be tailored	Consideration Considering the size of the risks and exposure being underwritten across the market (i.e. the open interest that	Observed	
An FMI's participation requirements should be justified in terms of the safety and efficiency of the FMI and the markets it serves, be tailored to and commensurate with the FMI's specific	Consideration Considering the size of the risks and exposure being underwritten across the market (i.e. the open interest that each clearing member underwrites),	Observed	
An FMI's participation requirements should be justified in terms of the safety and efficiency of the FMI and the markets it serves, be tailored to and commensurate with the FMI's specific risks and be publicly disclosed. Subject to	Consideration Considering the size of the risks and exposure being underwritten across the market (i.e. the open interest that each clearing member underwrites), the requirement for non-bank	Observed	
An FMI's participation requirements should be justified in terms of the safety and efficiency of the FMI and the markets it serves, be tailored to and commensurate with the FMI's specific risks and be publicly disclosed. Subject to maintaining acceptable risk control standards,	Consideration Considering the size of the risks and exposure being underwritten across the market (i.e. the open interest that each clearing member underwrites), the requirement for non-bank clearing members to have R200	Observed	
An FMI's participation requirements should be justified in terms of the safety and efficiency of the FMI and the markets it serves, be tailored to and commensurate with the FMI's specific risks and be publicly disclosed. Subject to maintaining acceptable risk control standards, an FMI should endeavour to set requirements	Consideration Considering the size of the risks and exposure being underwritten across the market (i.e. the open interest that each clearing member underwrites), the requirement for non-bank clearing members to have R200 million in own funds and a guarantee	Observed	
An FMI's participation requirements should be justified in terms of the safety and efficiency of the FMI and the markets it serves, be tailored to and commensurate with the FMI's specific risks and be publicly disclosed. Subject to maintaining acceptable risk control standards, an FMI should endeavour to set requirements that have the least-restrictive impact on	Consideration Considering the size of the risks and exposure being underwritten across the market (i.e. the open interest that each clearing member underwrites), the requirement for non-bank clearing members to have R200 million in own funds and a guarantee from a bank or bank holding company	Observed	
An FMI's participation requirements should be justified in terms of the safety and efficiency of the FMI and the markets it serves, be tailored to and commensurate with the FMI's specific risks and be publicly disclosed. Subject to maintaining acceptable risk control standards, an FMI should endeavour to set requirements	Consideration Considering the size of the risks and exposure being underwritten across the market (i.e. the open interest that each clearing member underwrites), the requirement for non-bank clearing members to have R200 million in own funds and a guarantee from a bank or bank holding company is deemed appropriate as a	Observed	
An FMI's participation requirements should be justified in terms of the safety and efficiency of the FMI and the markets it serves, be tailored to and commensurate with the FMI's specific risks and be publicly disclosed. Subject to maintaining acceptable risk control standards, an FMI should endeavour to set requirements that have the least-restrictive impact on	Consideration Considering the size of the risks and exposure being underwritten across the market (i.e. the open interest that each clearing member underwrites), the requirement for non-bank clearing members to have R200 million in own funds and a guarantee from a bank or bank holding company is deemed appropriate as a requirement to ensure participants	Observed	
An FMI's participation requirements should be justified in terms of the safety and efficiency of the FMI and the markets it serves, be tailored to and commensurate with the FMI's specific risks and be publicly disclosed. Subject to maintaining acceptable risk control standards, an FMI should endeavour to set requirements that have the least-restrictive impact on	Consideration Considering the size of the risks and exposure being underwritten across the market (i.e. the open interest that each clearing member underwrites), the requirement for non-bank clearing members to have R200 million in own funds and a guarantee from a bank or bank holding company is deemed appropriate as a	Observed	
An FMI's participation requirements should be justified in terms of the safety and efficiency of the FMI and the markets it serves, be tailored to and commensurate with the FMI's specific risks and be publicly disclosed. Subject to maintaining acceptable risk control standards, an FMI should endeavour to set requirements that have the least-restrictive impact on	Consideration Considering the size of the risks and exposure being underwritten across the market (i.e. the open interest that each clearing member underwrites), the requirement for non-bank clearing members to have R200 million in own funds and a guarantee from a bank or bank holding company is deemed appropriate as a requirement to ensure participants are reputable, financially substantial	Observed	

	bank clearing member's cleared exposure. In addition to this, JSE Clear has implemented a number of risk mitigation processes to allow for enhanced monitoring and management of exposures (margin back-testing, stress testing, liquidity stress testing, margin add-ons, default fund etc.). The access and participation requirements are reviewed whenever a change to underlying legislation is considered (e.g., the implementation of the FMA and the subsequent repealing of the Securities Services		
	Act and/or material structural changes are affected (e.g., as part of the migration to an independent clearing house with the associated creation of the JSE Clear Rulebook).		
Key Consideration 3	Assessment of the Key Consideration	Rating	Recommendation
An FMI should monitor compliance with its participation requirements on an ongoing basis and have clearly defined and publicly disclosed procedures for facilitating the suspension and orderly exit of a participant	The participants are required to submit audited financial statements annually (within three months after the end of its financial year-end).	Observed	None

that breaches, or no longer meets, the participation requirements.

An initial check is performed to ensure the validity of the statements

An initial check is performed to ensure the validity of the statements received, as well as to consider what the statements say about the overall financial health of the organisation. A detailed review is then undertaken to ensure that the capital requirements have been complied with (throughout the period), that there is sufficient surplus capital (should a surplus be required) and that sufficient capital will be available for the forthcoming period.

The rules specify that members are required to inform JSE Clear of instances where they fail to comply with the capital adequacy requirements. The rules also specify how members are required to respond in instances where they no longer have anyone fulfilling the role of Compliance Officer.

If the member fails to meet the requirements, the rules empower JSE Clear to terminate membership (involuntary termination of membership -refer to JSE Clear Rules, section 3.11).

Principle 19: Tiered participation arrangements

An FMI should identify, monitor, and manage the material risks to the FMI arising from tiered participation arrangements.

Overall Rating: Observed

Overall comment:

JSE Clear has managed to segregate information at the level of the underlying clients of the clearing members and gathers client information from its members. The information gathered enables JSE Clear to have insight about trends and possible risks that may emanate from these relationships.

Key consideration 1	_	Rating	Recommendation
	Consideration		
An FMI should ensure that its rules,	In terms of participation	Observed	None
procedures, and agreements allow it to gather	arrangements, JSE Clear currently		
basic information about indirect participation	allows for:		
in order to identify, monitor, and manage any			
material risks to the FMI arising from such	- Self Clearing Members who clear		
tiered participation arrangements.	for themselves and their clients;		
	and		
	- General Clearing Members who		
	clear for themselves and their		
	clients as well as for other trading		
	members and their clients.		
	- Further to this, the JSE currently		
	allows for trading members that		

are authorised and regulated by the JSE.

The structure of the market is: client to trading member and trading member to clearing members. JSE Clear operates an agency CCP model in which the clearing members guarantee the obligations of their clients to JSE Clear. All client and trading member accounts, positions and collateral are recorded on the JSE Clear systems.

All clearing members have to apply for membership of the clearing house and JSE Clear keeps a register of members. The register is updated whenever a new member is added or an existing member is terminated.

Counterparty credit exposure is mitigated through the monitoring of exposures and calculation of margin at an account (principal) level with no netting allowed. JSE Clear also calculates and monitors liquidation and large exposure margin add-on's at an account level. JSE Clear also monitor default fund exposures and which clearing members, trading members and clients drive the

	highest Cover 1 and Cover 2 stressed losses each day.		
Key Consideration 2	Assessment of the Key Consideration	Rating	Recommendation
An FMI should identify material dependencies between direct and indirect participants that might affect the FMI.	JSE Clear considers connections	Observed	None
Key Consideration 3	Assessment of the Key Consideration	Rating	Recommendation

An FMI should identify indirect participants responsible for a significant proportion of transactions processed by the FMI and indirect participants whose transaction volumes or values are large relative to the capacity of the direct participants through which they access the FMI in order to manage the risks arising from these transactions.	 a. This is monitored and reported to the JSE Clear Risk Committee on a quarterly basis. b. This has been identified as is regularly monitored through internal and regulatory reporting. c. This is monitored on an ongoing basis (through inter alia assessment of which participants attract the large exposure margin add-on and drive material changes in total margin on deposit) d. This is monitored. It is worth noting that JSE Clear's clearing members are all large local or international banks with sizeable capacity and balance sheets. The JSE monitors for position build-up (large positions) and a large exposure margin add-on is called for where required. 	Observed	None
	JSE Clear implements various measures to mitigate the counterparty credit risk.		
	All derivative trading members have to apply for membership on the JSE and the JSE keeps a register of members. The register is updated		

	whenever a new member is added, or an existing member is terminated. JSE Clear records all positions and collateral at the principal level and has access to the details of trading members and clients through its reference data systems. Further to this, the trading members are required to submit monthly capital adequacy returns to the JSE. For the non-bank clearing member firms these returns are provided to JSE Clear monthly.		
Key Consideration 4	Assessment of the Key Consideration	Rating	Recommendation
An FMI should regularly review risks arising from tiered participation arrangements and should take mitigating action when appropriate.	basis and are tabled at the JSE Clear	Observed	None

JSE	Clear also monitors credit	
stand	ings and would consider	
mitiga	ating actions (enforcing	
reduc	tion in exposure and/or	
additi	onal margin/surety) if a	
partic	ipant's credit standing	
deteri	orated materially.	
	•	

Principle 21: Efficiency and effectiveness

An FMI should be efficient and effective in meeting the requirements of its participants and the markets it serves.

Overall Rating: Observed

Overall comment:

JSE Clear's offerings and services are tested and responded to via feedback received from the various JSE Clear governance forums. Participants are able to raise concerns and /or new requirements through these forums.

Key consideration 1	Assessment of the Key	Rating	Recommendation
	Consideration		
An FMI should be designed to meet the needs	JSE Clear maintains its focus of the	Observed	None
of its participants and the markets it serves, in	needs of the market via rigorous and		
particular, with regard to choice of a clearing	frequent engagement, at every level.		
and settlement arrangement; operating	The effectiveness of its offerings and		
structure; scope of products cleared, settled, or	services are tested and responded		
recorded; and use of technology and	to via feedback received from the		
procedures.	various JSE Clear governance		
	forums - the Board, Risk Committee		
	and Advisory Committees.		
	All include representatives from a		
	range of impacted market		
	participants - as well as dealings		
	with representatives (at all levels)		
	from our clearing members (IT,		
	sales and administrative staff in		

A Service Agreement is in place between JSE Clear and the JSE which is based on the JSE Clear service objectives as well as the requirements of the market participants. These are measured daily and reported back to the JSE Clear Risk Committee and JSE Clear Board on a quarterly basis. Participants are able to raise concerns and /or new requirements through the various forums - JSE	
also invited to this forum. A Service Agreement is in place between JSE Clear and the JSE which is based on the JSE Clear service objectives as well as the requirements of the market participants. These are measured daily and reported back to the JSE Clear Risk Committee and JSE	
feedback it receives from the market. JSE Clear has also introduced a regular clearing member forum where more operational items and ongoing projects are discussed. Software vendors providing solutions to clearing members are	
particular). JSE Clear prides itself on being a client-centric organisation, and places significance on the	

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An FMI should have clearly defined goals and objectives that are measurable and achievable, such as in the areas of minimum service levels, risk-management expectations, and business priorities.	The goals and objectives related to JSE Clear's operational effectiveness are encapsulated in its Service Level Agreements. The agreement specifies the different aspects of the CCP's operations that need to be considered as part of the	Observed	None
	provision of its service offering and states the expected standard of service delivery for each of these aspects.		
	The Service Agreement between JSE Clear and the JSE is based on the JSE Clear service objectives as well as the requirements of the participants.		
	The expected service levels that JSE Clear needs to deliver to the market are specified in the level 2 risk appetite reporting and reporting in this regard included in the monthly JSE Clear Exco report.		
	Specifically, JSE Clear's objectives are:		
	Reduce systemic risk.Ensure efficient, fair markets.Protect investors.Ensure orderly markets.		

	- Promote transparency Provide credible information. JSE Clear has a Service Agreement with the JSE which is based on JSE Clear's service objectives. These are measured daily and reported back to the JSE Clear Risk Committee and JSE Clear Board on a quarterly basis.		
Key Consideration 3	Assessment of the Key Consideration	Rating	Recommendation
An FMI should have established mechanisms for the regular review of its efficiency and effectiveness.	JSE Clear uses level 1 and level 2 risk indicators to evaluate its efficiency and effectiveness. The level 1 risk indicators are reported quarterly to the JSE Clear Risk Committee. The level 2 risk indicators are measured and reported on monthly at the JSE Clear management meetings. JSE Clear operations area undertakes regular review of its processes and is specifically	Observed	None

Principle 22: Communication procedures and standards

An FMI should use, or at a minimum accommodate, relevant internationally accepted communication procedures and standards in order to facilitate efficient payment, clearing, settlement, and recording.

Overall Rating: Observed

Overall comment:

JSE Clear utilises appropriate communication procedures and standards to facilitate its business activities and services.

Key consideration 1	Assessment of the Key	Rating	Recommendation
	Consideration		
An FMI should use, or at a minimum	JSE Clear only connects to local	Observed	None
accommodate, internationally accepted	participants - the clearing members.		
communication procedures and standards.			
	As such, the protocol used to		
	interface to the clearing system is		
	TCP/IP with a proprietary API		
	interface for the clearing systems		
	used. Most clearing members also		
	use a system supplied by the local		
	service provider, facilitating		
	connectivity to the CCP. JSE Clear		
	does not govern the relationship		
	between the participants and their		
	clients.		

Principle 23: Disclosure of rules, key procedures, and market data

An FMI should have clear and comprehensive rules and procedures and should provide sufficient information to enable participants to have an accurate understanding of the risks, fees, and other material costs they incur by participating in the FMI. All relevant rules and key procedures should be publicly disclosed.

Overall Rating: Observed

Overall comment:

JSE Clear's Rules are available on its website. Other information is available publicly and upon request. This is deemed sufficient to enable members to have accurate understanding of risks and material costs they are likely to incur by participating in JSE Clear.

Key consideration 1	Assessment of the Key	Rating	Recommendation
	Consideration		
An FMI should adopt clear and comprehensive	The primary rule-set used to govern	Observed	None
rules and procedures that are fully disclosed to	the activities of the clearing house		
participants. Relevant rules and key	are the JSE Clear rules, which came		
procedures should also be publicly disclosed.	into effect on the 1st of January		
	2023. These rules define the basic		
	obligations of each of the market		
	participants, as well as the		
	responsibilities placed on each of		
	these.		
	A range of separate, topic-specific		
	policies and procedures have been		

created to explain the workings of the different (primarily operationally focused) aspects of market participation.

The Rules and applicable documents are available on the JSE website.

Notification of new Rules and Rule changes are sent out to the market via Market Notices. Also, new documents or amendments to existing documents are circulated to participants.

The JSE Clear Rules and Directives (as well as new policies / policy amendments) are reviewed and approved by the various committees within JSE Clear's governance structure. Representatives from these committees assess these Rules and Directives, policies and procedures to test the basis on which these have been designed, the manner in which they are to be implemented or embedded, as well as the specificity with which the documentation of these guidelines reflect the original intent of the CCP and its stakeholders.

	 All JSE rules are reviewed, assessed and approved in advance by the Registrar, and all changes to JSE Clear rules: - are canvassed with the relevant JSE advisory committee to obtain industry input. - Have to be motivated to the Registrar. - Have to be published for public comment. 		
Key Consideration 2	Assessment of the Key Consideration	Rating	Recommendation
An FMI should disclose clear descriptions of the system's design and operations, as well as the FMI's and participants' rights and obligations, so that participants can assess the risks they would incur by participating in the FMI.	Since 2021, JSE Clear has had a full complement of staff in its own employ to perform the necessary functions for JSE Clear. JSE Clear has a full catalogue of documented processes and procedures explaining the operations of each of the areas within the organisation. These are documented at a level that allow all staff members to use them as operational procedures to conduct the day-to-day operations of JSE Clear. JSE Clear rules and directives dictate the powers and authorities it	Observed	None

	has in terms of the discretion it can exercise.		
	Stress testing and Back-testing is		
	also conducted, which gives a view		
	of the risk profile of the participants		
	specific portfolios and is distributed		
	on a monthly basis to the applicable		
	participants.		
Key Consideration 3	Assessment of the Key Consideration	Rating	Recommendation
An FMI should provide all necessary and	To ensure that all market	Observed	None
appropriate documentation and training to	participants have a continued		
facilitate participants' understanding of the	understanding of our rules and		
FMI's rules and procedures and the risks they face from participating in the FMI.	procedures, regular discussions with member representatives are held		
lace nom participating in the rivin.	(i.e. recently discussions regarding		
	the Default Rules and Procedures		
	were held in preparation for the most		
	recent default simulation:		
	discussions regarding the rules in		
	relation to collateral were held while		
	the introduction of securities		
	collateral was being contemplated).		
	As per the JSE Clear Member		
	Supervision Framework, JSE Clear		
	undertakes at least annual onsite		
	reviews with each clearing member		
	to understand the arrangements and		
	controls in place to meet the		

	obligations placed on them per the rules. Generally, the measures used to test degree of members understanding of our rules and processes are mainly qualitative ones. Typically, our communication is deemed to be successful due to the fact that few deviations from expected behaviour are witnessed in our member community. The CCP relies on the clearing manager of each member firm. Members are required to formally nominate a staff member (often their compliance officers) to take the role of a clearing manager, whose responsibility it is to study the JSE rules and familiarise themselves with all endorsed processes and member obligations.		
Key Consideration 4	Assessment of the Key Consideration	Rating	Recommendation
An FMI should publicly disclose its fees at the level of individual services it offers as well as its policies on any available discounts. The FMI should provide clear descriptions of priced services for comparability purposes.	JSE Clear has established a standalone pricelist specifically for its clearing services - updates to which are distributed via market notices, and these fee details are also made available on the website.	Observed	None

	Details relating to penalties are captured with the rules and directives, which are also available on the JSE website. JSE Clear typically provides for a minimum of 30 days' notice to be given for any amendments made to fees or the product / services pricing structure. Fees are typically reviewed and where applicable changed annually. Any fee changes are sent out by Market Notice to members.		
Key Consideration 5	Assessment of the Key Consideration	Rating	Recommendation
An FMI should complete regularly and disclose publicly responses to the CPSSIOSCO Disclosure framework for financial market infrastructures. An FMI also should, at a minimum, disclose basic data on transaction volumes and values.	The last self-assessment approved by the Authorities was completed in 2018. Members of the FSCA sit on the JSE Clear Risk Committee and are alerted of any significant changes that may be introduced to the CCP. In light of these potential changes, the regulator may at its discretion request that the CCP complete the	Observed	None

IOSCO self-assessment outside of any schedule.

JSE Clear publishes key risk policies, methodologies and frameworks on the JSE website. The rules are also published on the website.

A variety of media / communication mechanisms are used for the public disclosure of information.

The most commonly used of these include:

- The JSE Website.
- Official Market Notices.
- Press Statements.
- Media Articles (including interviews with content matter experts or business owners).
- Email.
- Government Gazette (for Rules Changes specifically).

All public disclosures are published in English.